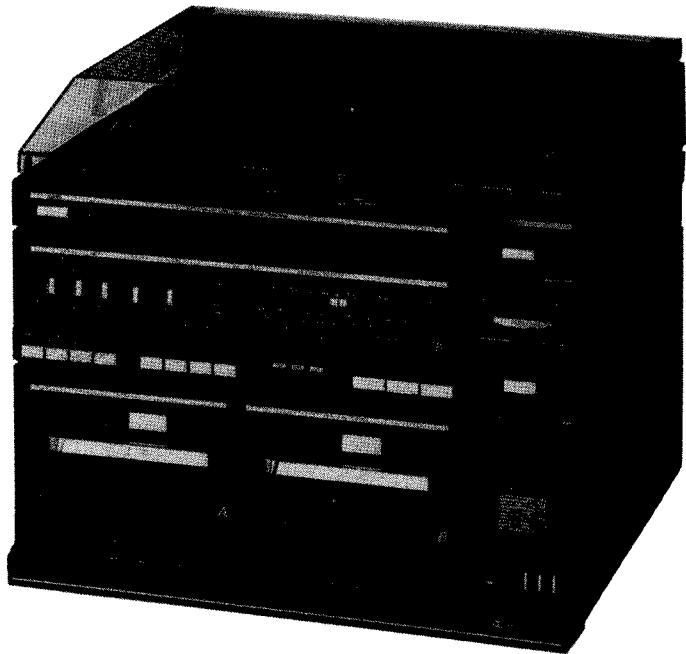


SERVICE MANUAL



DOUBLE CASSETTE STEREO SOUND SYSTEM

DCX W8
(EUROPE / WEST GERMANY)



SPECIFICATIONS

Note:

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

Tuner section

Frequency range FM: 87.5 – 108.0 MHz
MW: 531 – 1602 kHz
LW: 153 – 281 kHz

Turntable section

Drive system. Belt drive
Stylus. ST-W8J

Cassette deck section

Recording system AC bias, 4-track stereo
Rewind and fast forward time. Approx. 120 sec. (C-60)
Wow and flutter. 0.18% (WRMS)

General

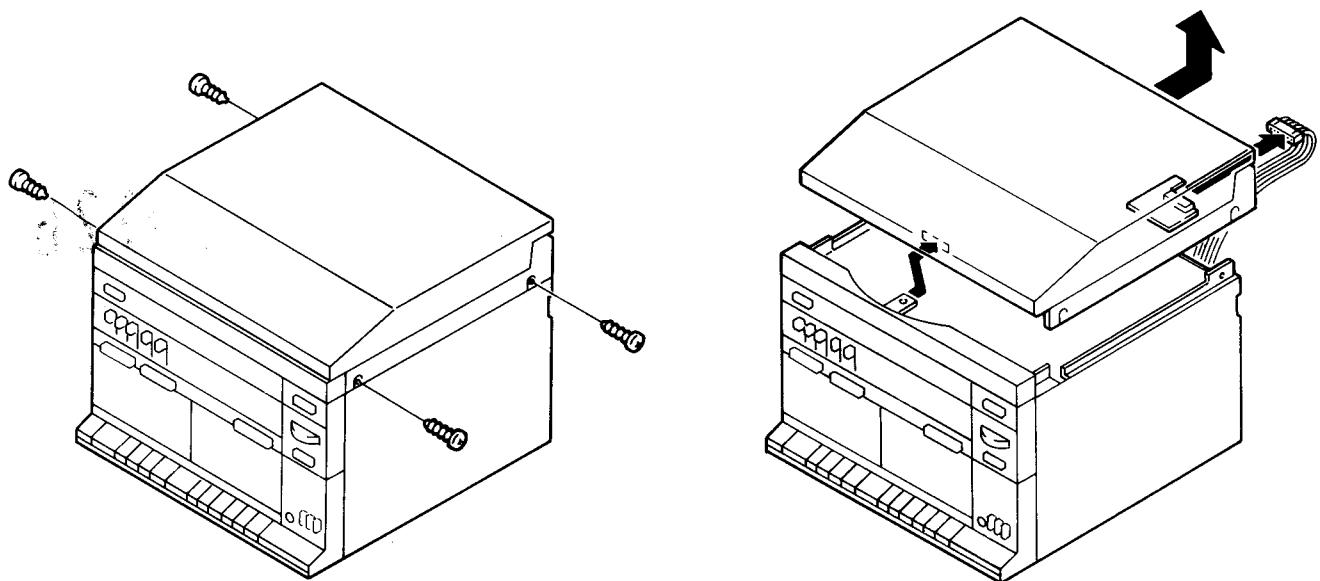
Output power	10W x 2 (at 8 ohms, 1 kHz, 1% distortion)
Inputs	CD: 47 k ohms (250 mV)
Outputs	SPEAKERS: 8 ohms PHONES: 8 ohms
Power requirements.	AC: 220 V, 50 Hz (For clock) DC: 1.5 V, "R6/AA/SUM-3" size battery
Power consumption.	65 W
Dimensions (W x D x H)	Approx. 335 x 360 x 280 mm (13-1/4" x 14-1/4" x 11")
Weight	Approx. 7 kg (15 lbs.)

Specifications subject to change without notice.

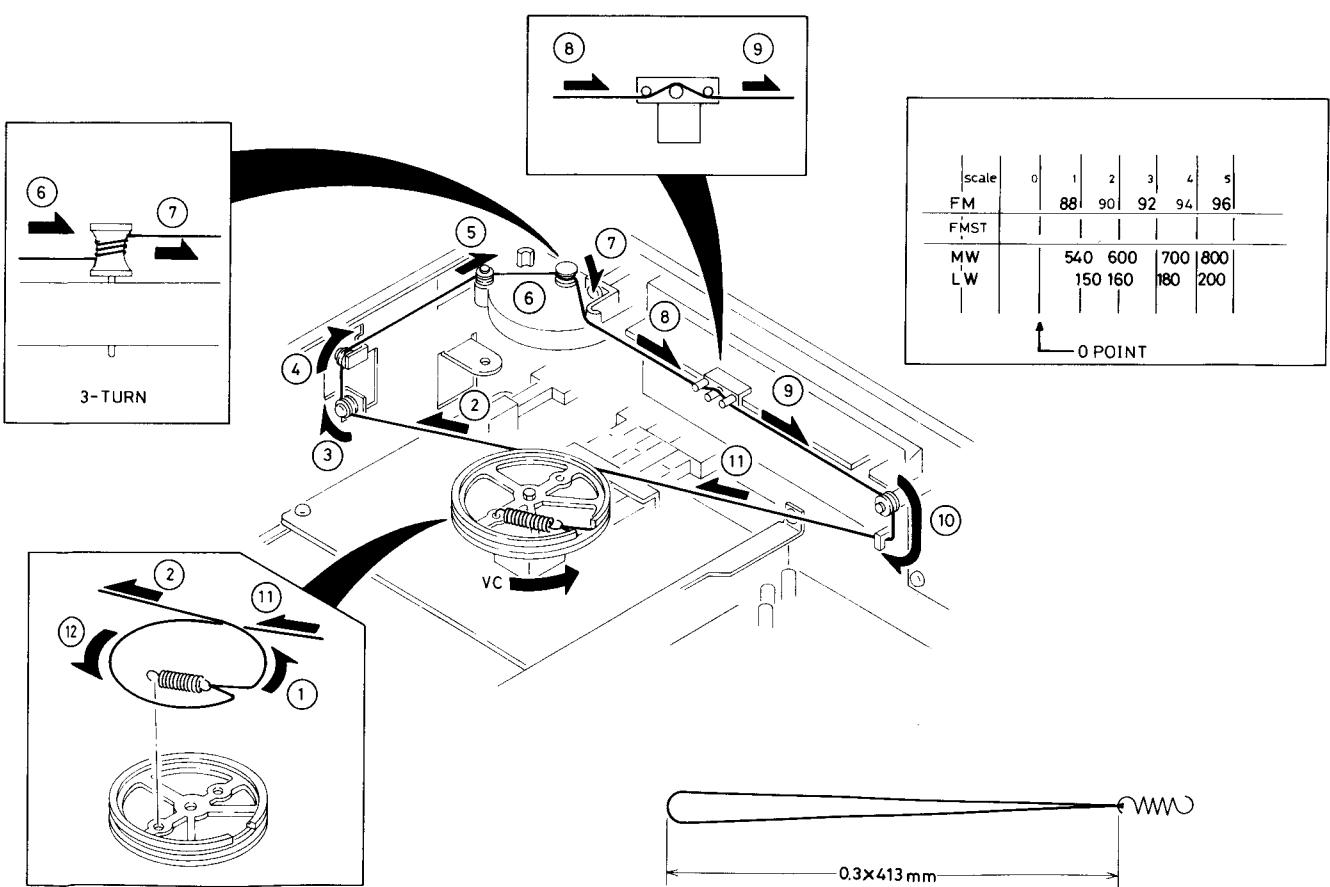
DISASSEMBLING PROCEDURE

- Unplug the AC cord if connected.

(1) Removal of Turn-Table.



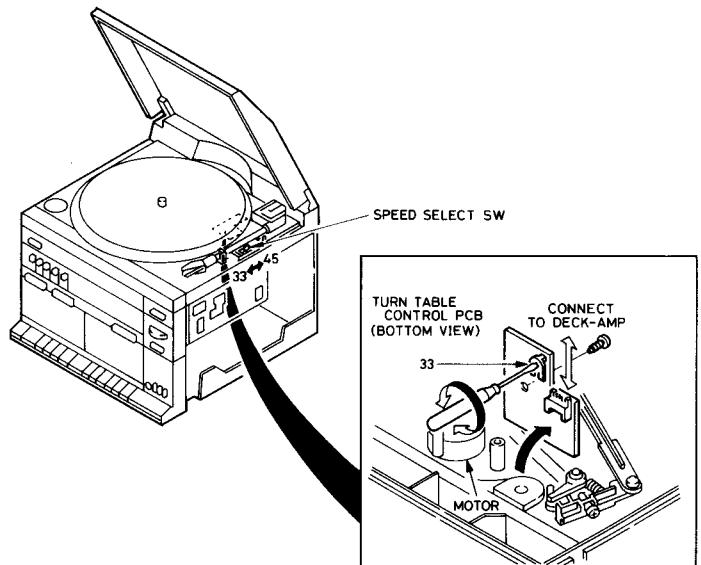
THREADING WITH DIAL ROPE



ADJUSTMENT OF TURN-TABLE

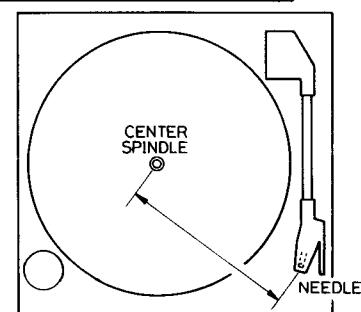
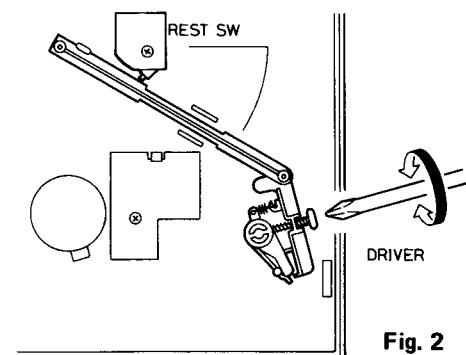
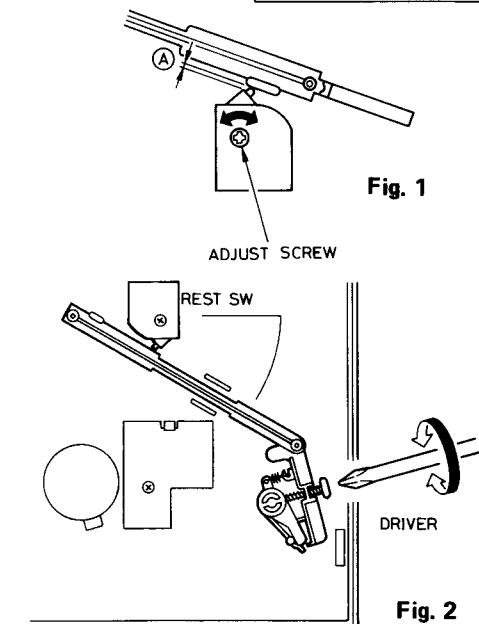
1. Adjustment of Speed

- (1) Set RG-324 of test record.
- (2) Set the speed change switch to "33".
- (3) Move the arm to the position BAND 3 of test record (RG-324), and let down the needle to the record.
- (4) Adjust SVR so that frequency is 3000 ± 10 Hz.
Clockwise: Rotation becomes slow.
Counterclockwise: Rotation becomes fast.



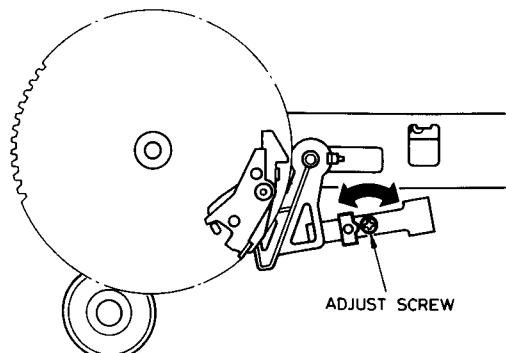
2. Adjustment of Rest Switch Timing

- (1) Move the tone arm to the right side beyond the tone arm rest (hereinafter referred to as rest).
- (2) Adjust the fitting screw of switch base plate so that distance between rest switch (SW941) and edge of trip connecting lever is 0.1 to 0.3 mm as shown in Fig. 1.
- (3) Then, turn the vertical screw of arm lever as shown in Fig. 2 to adjust ON/OFF timing of rest switch. Adjust so that "OFF" timing is at more than 3 mm before the rest.
- (4) Set the arm lifter lever to UP, and check the position where the tone arm pushed to inside stops by the rest switch.
Distance between center spindle and needle tip: more than 150.5 mm



3. Adjustment of Auto Return

- (1) If the auto return position deviates and readjustment is required, adjust the position by turning the screw provided on the front end of trip connecting lever as shown right.
Clockwise: Arm return is accelerated.
Counterclockwise: Arm return is delayed.



ADJUSTMENT OF TUNER

Notes: 1. For adjustment, change over setting of switches and controls to the following position:

FUNCTION → TUNER BALANCE → Mechanical Center GRAPHIC EQUALIZER → 0 dB
 FM MODE → STEREO DOLBY → OFF

- For coverage adjustment, adjust basically the graduation of dial scale.
- Use screwdriver with plastic grip for all adjustment.

GENERAL ADJUSTMENT CONDITIONS

Standard Output Level : 50 mW (0.64V/8 ohm)

Standard Modulation : FM 1KHz ±4KHz dev. AM 400Hz 30% mod.

Power Source : AC 220V, 50Hz

Dummy Antenna

FM	AM
75 ohm Direct	I.R.E. Loop

FM ADJUSTMENT • Selector switch to "FM".

Step	Adjustment	Connections		Positions of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	Low end Voltage		Connect Digital V meter to TP105 & TP203(E)	Low End	SVR121	1.5±0.03V	Adjust SVR121 to obtain 1.5V display on Digital V-Meter.
2	IF	V carve	Connect sweep generator to TP103(H) & TP104(E)		T201	10.7 MHz	Center frequency of Ceramic Filter
		S carve	Connect sweep generator to TP202 (H) & TP203(E)		T202		
3	Tuning Coverage		Connect V.T.V.M. to Speaker terminals	Low End	L104	87.4 MHz	Maximum reading on V.T.V.M.
				High End	CT103	108.25 MHz	
4	Tracking		Input: 60 dB μ V		90 MHz	L101·L102	Max. Sensitivity
					106 MHz	CT101·CT102	
5	V.C.O	Connect FM SG to ANT. terminals Input: 66 dB μ V No modulation	Connect Frequency Counter to TP301 (H) and TP104(E)	98 MHz	SVR302	19.00±0.03KHz	Adjust SVR302 to obtain 19.00 KHz display on Frequency Counter
6	Separation	Connect Stereo modulated FM SG to ANT. terminals input: 66 dB μ V	Connect V.T.V.M. to Speaker terminals of Right (or Left) Channel	98 MHz	SVR301	Best Separation	Adjust SVR301 to obtain Best Separation
7	Stereo Indicator	Connect FM SG to ANT. terminals input: 20 dB		98 MHz	SVR261		Adjust so that the LED for light up.

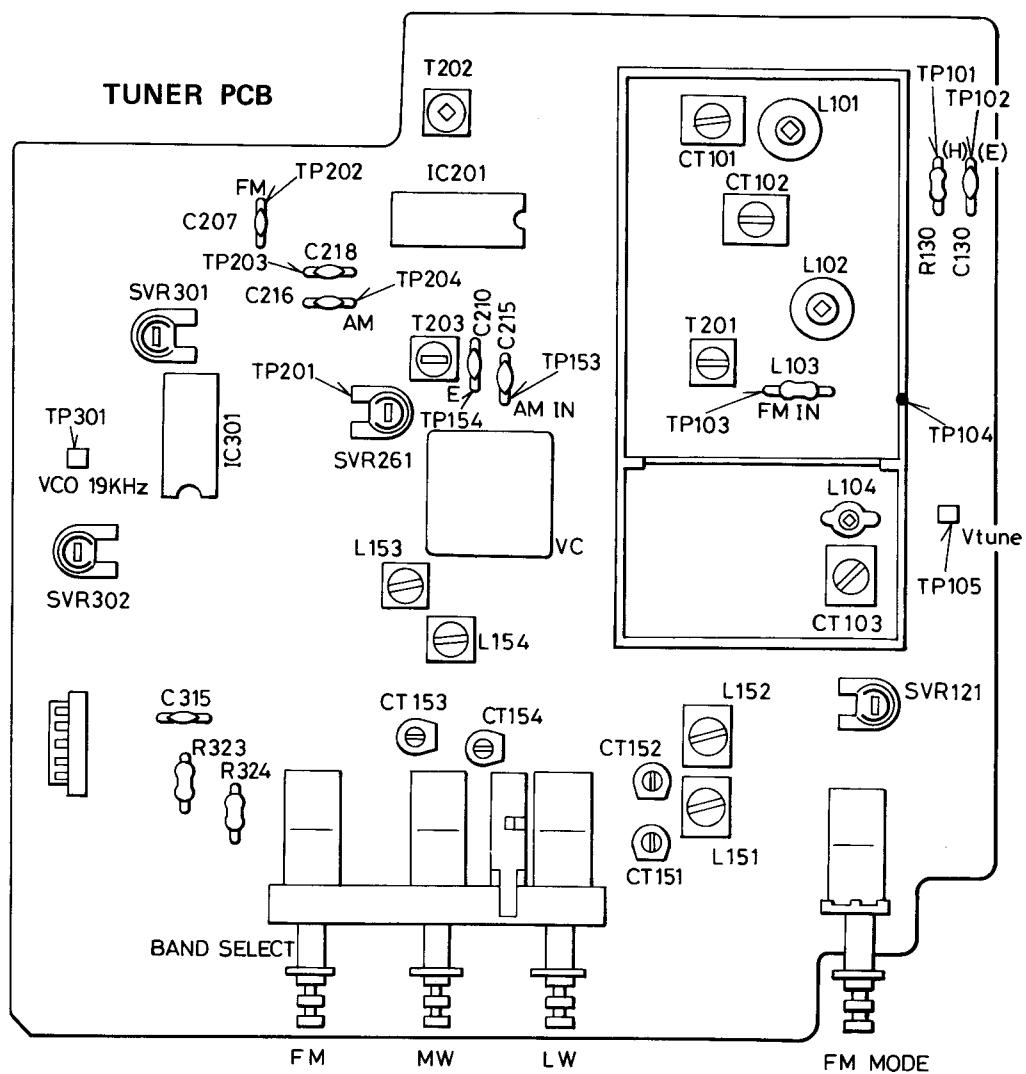
LW ADJUSTMENT • Selector switch to "LW".

Step	Adjustment	Connections		Positions of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	IF	Connect sweep generator to TP153(H) & TP154(E)	Connect sweep generator to TP204 (H) & TP203(E)		T203	460 kHz	Center frequency of Ceramic Filter
2	Tuning Coverage		Connect V.T.V.M. to Speaker terminals	Low End	L154	140 kHz	Maximum reading on V.T.V.M.
				High End	CT154	300 kHz	
				160 kHz	L152		
				280 kHz	CT152	Max. Sensitivity	

MW ADJUSTMENT • Selector switch to "MW".

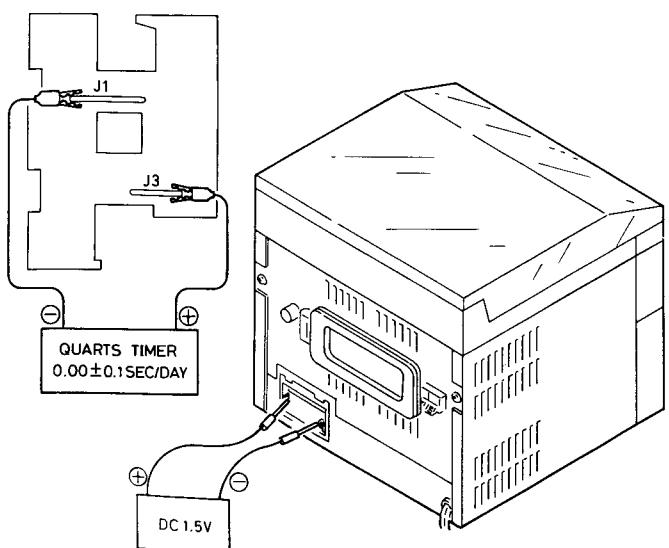
Step	Adjustment	Connections		Positions of Tuning Dial	Parts of Adjustment	Standards of Adjustment	Adjustment for
		Input	Output				
1	Tuning Coverage		Connect V.T.V.M. to Speaker terminals	Low End	L153	510 kHz	Maximum reading on V.T.V.M.
				High End	CT153	1650 kHz	
				600 kHz	L151		
				1400 kHz	CT151	Max. Sensitivity	

PARTS LAYOUT (TUNER)



ADJUSTMENT OF CLOCK

- (1) Apply DC voltage (1.5V) to the clock battery terminal.
- (2) Connect \ominus side of the quartz timer to the J1 on the P.C. Board.
- (3) Connect \oplus side of the quartz timer to the J3 on the P.C. Board.
- (4) The quartz timer then indicates the error per day of the clock.
- (5) Check if the quartz timer indicates 0.00 ± 0.1 SEC/DAY.
- (6) If the timer indication is other than 0.00 ± 0.1 SEC/DAY, insert a bladed screwdriver into the trimmer CT981, for adjustment of the timer indicates 0.00 ± 0.1 SEC/DAY.



ADJUSTMENT OF DECK

1. Checking of Mechanism

- * Before the measurement, be sure to clean the head, capstan and pinch roller.
- * Measure the torque and tension in each mode and check whether or not the measured values are as specified in the following table.

Measuring items	Take-up torque	Back tension	Tape tension
Cassette in use	PLAY: TW-2111 F·FWD/REW: TW-2231	PLAY/F·FWD: TW-2111 REW: Torque Gauge	Drive Power Cassette TW-2412
PLAY	30 ~ 65 gr·cm	2 ~ 6 gr·cm	More than 150 g
F·FWD	55 ~ 150 gr·cm	2 ~ 6 gr·cm	Pinch Roller pressure
REW	55 ~ 150 gr·cm	2 ~ 7 gr·cm	More than 300 g

* If the values shown above are not satisfied, check the drive mechanism in each mode. If the defective part(s) is found, replace it and perform the measurement again.

2. Adjusting of Deck Amplifier

	Item	Deck	Test Tape	Input	Tape Sel.	Adjust	Remarks
1	Head Azimuth	TAPE A TAPE B	VTT-703 (10kHz)	—	NORMAL	—	Adjust to obtain maximum, right and left balanced output.
2	Playback Level	TAPE A TAPE B	TCC-130 (DOLBY)	—	NORMAL	SVR501 SVR601 SVR502 SVR602	Adjust to obtain 100mV on VTVM.
3	Rec/Play Level	TAPE B	AC-223	1kHz -14dB	CrO ₂	SVR503 SVR503	Adjust record monitor to obtain same output of record/play.
4	Rec/Play Frequency	TAPE B	AC-223	1kHz/10kHz -14dB	NORMAL	SVR504 SVR604	Adjust to obtain same output of 1kHz and 10kHz.

Note: Input: CD IN terminal

Output: Test Point A

Dolby NR: OFF

3. Adjusting of Tape Speed

Cares when Adjusting

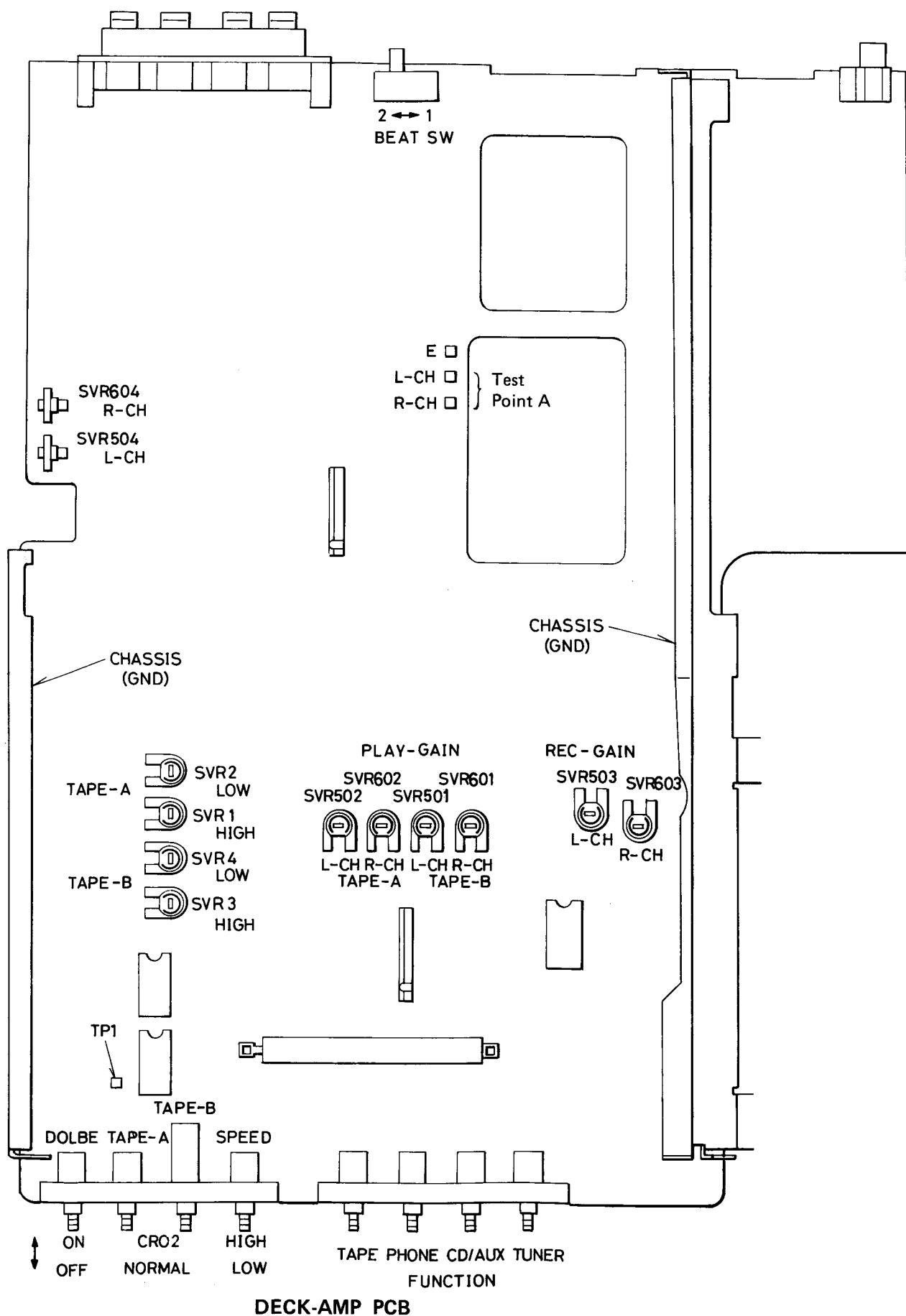
- (1) Be sure to adjust in order of High speed – Normal speed.
- (2) For High speed adjustment, short-circuit TP1 and chassis.
- (3) When adjusting, make sure that the tape A (playback deck) and tape B (recording deck) are almost in the same position when wound to end.
- (4) When adjusting ascertain that tape speed does not change for approx. 2 sec. after pulling out the slotted head screw driver for adjustment from SVR.
- (5) Use a screw driver for adjustment with insulated handle.

Adjusting Method

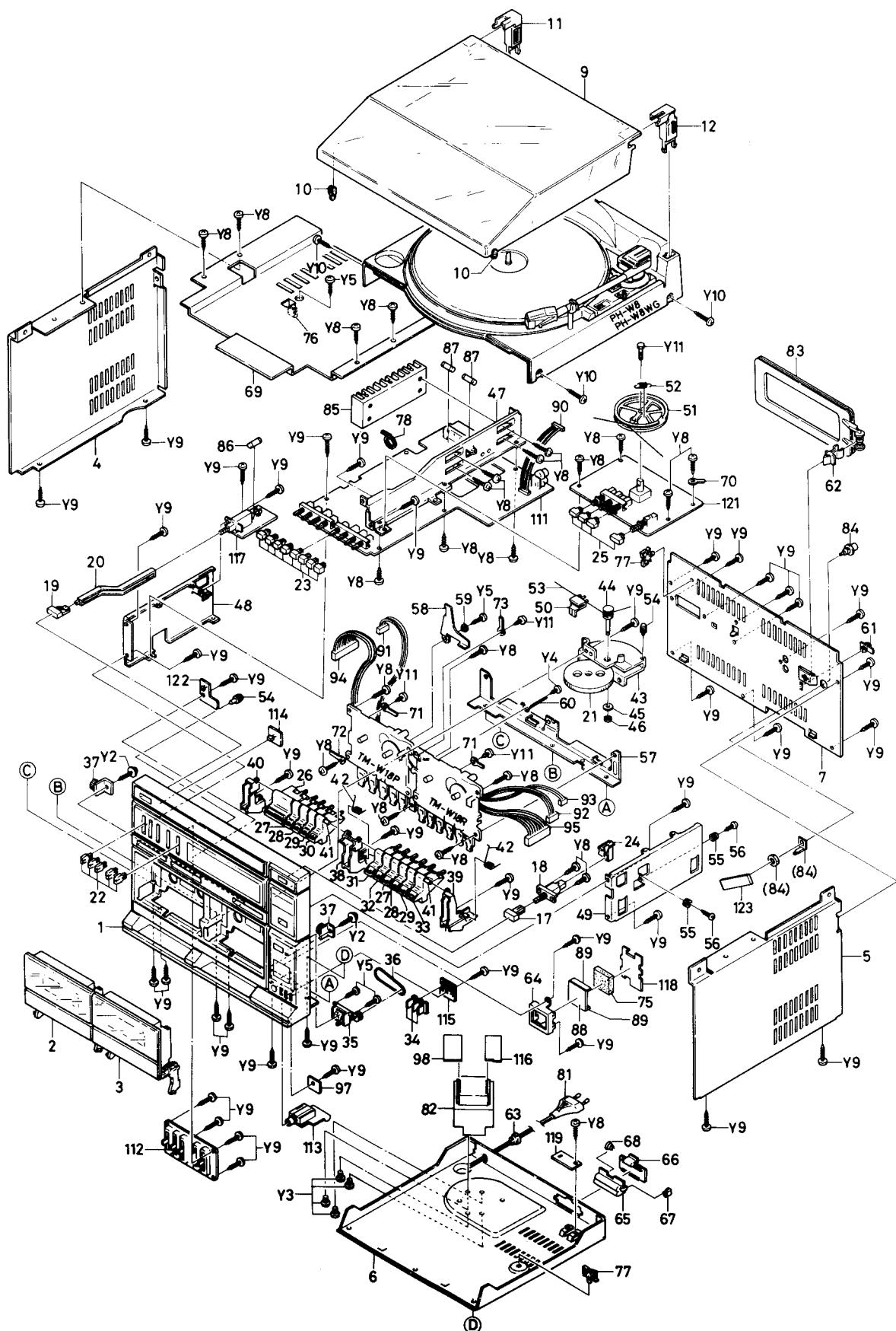
- * Adjust each SVR, playing back the test tape, so that tape speed (measured at output side) is 3000 Hz (for tape A) and 2985 Hz (for tape B).

No.	Adjustment Item		Cassette for Measurement	Adjusting Place
1	High speed	Tape A	TCW-211, etc. (1500 Hz)	SVR 1
2	High speed	Tape B		SVR 3
3	Normal speed	Tape A	MTT-111N, etc. (3000 Hz)	SVR 2
4	Normal speed	Tape B		SVR 4

PARTS LAYOUT (DECK-AMPLIFIER)



EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

Note: (WG) West Germany

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-133T-85202	INNER CORR CASE
	141-6-133T-85203	INNER CORR CASE (WG)
	141-6-145T-20000	FOAM PLASTIC CASE, TOP
	141-6-145T-21100	FOAM PLASTIC CASE, BOTTOM
	141-6-318T-29900	PAD, RUBBER SHEET
	141-6-235T-70651	INNER POLYE LAMINA COVER, SET
	141-6-235T-40451	INNER POLYE LAMINA
	141-6-231T-30350	COVER, DUST COVER
	141-6-231T-10250	INNER POLYE COVER, RUBBER SHEET
	141-6-231T-20300	INNER POLYE COVER, INST BOOK
	141-6-231T-10100	INNER POLYE COVER, 45 SPACER/HINGE
	141-6-409T-24202	INST MANUAL
	141-6-409T-42403	INST MANUAL (WG)
	141-6-415T-43800	NOTICE, FTZ (WG)
	141-2-183T-00100	VINYL SASH, ARM FIXING
	141-2-184T-07000	TAPE 12X50MM, CARTRIDGE
	4-245T-00700	ANT, FM

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-66201	FRONT PANEL ASSY
2	141-0-224T-16315	BRACKET LID ASSY, TAPE-A
3	141-0-224T-16316	BRACKET LID ASSY, TAPE-B
4	141-2-123T-09100	SIDE PANEL, LEFT
5	141-2-123T-09101	SIDE PANEL, RIGHT
6	141-0-125T-44100	BOTTOM LID ASSY
7	141-2-119T-05601	BACK PANEL
8	141-2-119T-05602	BACK PANEL (WG)
9	141-2-121T-22200	DECK PANEL
10	141-2-194T-02700	DUST COVER
11	141-2-445T-32800	RUBBER CUSHION, DUST COVER
12	141-2-251T-08702	HINGE, LEFT
13	141-2-251T-08703	HINGE, RIGHT
14	141-2-873T-00500	REST, MOVING
15	141-2-873T-00600	REST, FIXING
16	141-2-860T-16900	SPRING WIRE, REJECT
17	141-2-352T-52500	SPACER, 45 RPM
18	141-2-160T-60304 4-248T-06671	PUSH BUTTON, REJECT
19	141-2-160T-60304	SWITCH, REJECT
20	141-2-253T-23300	PUSH BUTTON, POWER
21	141-2-165T-04101	JOINT, POWER
22	141-2-164T-41702	ROTARY KNOB, TUNING
23	141-2-160T-71601	SLIDE KNOB, G-EQ-BAL-VOL
24	141-2-253T-48500	PUSH BUTTON, FUNCTION
25	141-2-160T-57401	DOLBY-TAPE SELECT-DUB SPEED
26	141-2-611T-15401	JOINT, REJECT
27	141-2-611T-15304	PUSH BUTTON, BAND-FM MODE
28	141-2-611T-15303	LEVER PUSH BUTTON, PLAY (TAPE A)
29	141-2-611T-15305	LEVER PUSH BUTTON, REW
30	141-2-611T-15307	LEVER PUSH BUTTON, F FWD
31	141-2-611T-15301	LEVER PUSH BUTTON, STOP/EJECT

Ref. No.	Part No.	Description
32	141-2-611T-15302	LEVER PUSH BUTTON, PLAY (TAPE B)
33	141-2-611T-15306	LEVER PUSH BUTTON, PAUSE
34	141-2-160T-61900	PUSH BUTTON, CLOCK
35	141-2-811T-16300	COUNTER
36	141-2-564T-34000	SQUARE BELT, COUNTER
37	141-0-581T-32005	GEAR ASSY, CASSETTE DUMPER
38	141-2-210T-58800	BRACKET, CENTER
39	141-2-210T-69400	BRACKET, RIGHT
40	141-2-210T-69500	BRACKET, LEFT
41	141-2-754T-61500	SHAFT, CASSETTE-LID
42	141-2-856T-38000	SPRING COIL
43	141-2-210T-83100	BRACKET, TUNING
44	141-2-566T-14500	TUNING SHAFT
45	141-2-453T-30301	SPECIAL WASHER GNW 3.1X5.4X0.25
46	141-2-457T-23000	SPECIAL WASHER E RING 2MM
47	141-2-315T-34100	REINFORCEMENT, CENTER
48	141-2-377T-29400	BRACKET P.C.BOARD, LEFT
49	141-2-377T-29401	BRACKET P.C.BOARD, RIGHT
50	141-2-511T-31500	POINTER
51	123-2-538R-10101	DRUM
52	141-2-855T-38700	SPRING COIL, ROPE
53	141-2-340T-10300	ROPE 0.3X1000MM
54	141-0-661T-36100	PULLEY ASSY, TUNING
55	141-2-661T-21400	PULLEY, TUNING
56	141-2-421T-47100	SPECIAL SCREW, PULLEY
57	141-2-351T-62000	BRACKET MTG, MECHA-BOTTOM
58	141-2-740T-27101	LEVER, R/P SELECT
59	141-2-462T-91700	BOSS, LEVER MTG
60	141-2-852T-92701	SPRING WIRE, R/P SELECT
61	141-2-210T-77900	BRACKET, LOOP-ANT LEAD FIXER
62	141-2-210T-70800	BRACKET, LOOP-ANT
63	141-2-464T-14400	FIXER, AC CORD
64	141-2-210T-78300	BRACKET, CLOCK
65	141-2-331T-06200	HOLDER BATTERY
66	141-2-128T-26600	BATTERY LID
67	141-2-336T-19600	TERMINAL BATTERY +
68	141-2-336T-34200	TERMINAL BATTERY -
69	141-2-322T-98000	SHIELD PLATE (WG)
70	141-2-472T-01001	LUG, ANT LEAD RETAINER
71	123-2-472R-00401	LUG, MECHA-EARTH
72	141-2-472R-00601	LUG, LEAD RETAINER
73	123-2-472R-00600	LUG, MECHA-EARTH
74	141-2-174T-14801	STAND, MECHA-CUSHION (P19)
75	141-2-448T-25400	CUSHION, CLOCK
76	141-2-447T-09701	CUSHION, SHIELD PLATE (WG)
77	141-2-464T-21300	FIXER, LEAD RETAINER
78	141-2-464T-43100	FIXER, LEAD RETAINER
79	141-6-479T-92600	LABEL

FIXING PARTS

Ref. No.	Part No.	Description
Y1	BJX6S++3+8+Z1	PAN WASHER HD 2
Y2	BJX6S++310+Z1	TAPPING SCREW 3X8
Y3	BJESS++4+8+Z1	PAN WASHER HD 2
		TAPPING SCREW 3X10
		BIND HD S TITE SCREW 4X8

PARTS LIST

Ref. No.	Part No.	Description
Y4	BJB2S2R6+4+Z1	BIND HD 2 TAPPING SCREW 2.6X4
Y5	BJB2S2R6+8+Z1	BIND HD 2 TAPPING SCREW 2.6X8
Y6	BJB2S2R610+Z1	BIND HD 2 TAPPING SCREW 2.6X10
Y7	BJB2S++3+6+Z1	BIND HD 2 TAPPING SCREW 3X6
Y8	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
Y9	BJB2S++310+Z1	BIND HD 2 TAPPING SCREW 3X10
Y10	BJB2S++310+ZK	BIND HD 2 TAPPING SCREW 3X10 ZK
Y11	BJRBS2R610+Z1	HEX HD BOLT 2.6X10

Ref. No.	Part No.	Description
L603	4-252T-12922	CHOKE COIL
L604	4-255T-02371	MX COIL
L901	4-258T-59340	OSC COIL
L902	4-252T-04700	CHOKE COIL
SVR1	4-222T-97574	SEMI-FIXED VR, 5K OHM (B)
SVR2	4-222T-97573	SEMI-FIXED VR, 2K OHM (B)
SVR3	4-222T-97574	SEMI-FIXED VR, 5K OHM (B)
SVR4	4-222T-97573	SEMI-FIXED VR, 2K OHM (B)
SVR501	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR502	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR503	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR504	4-222T-85878	SEMI-FIXED VR, 100K OHM (B)
SVR601	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR602	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR603	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR604	4-222T-85878	SEMI-FIXED VR, 100K OHM (B)

ELECTRICAL PARTS

Ref. No.	Part No.	Description
81	▲ 4-243T-84973	POWER CORD
82	▲ 4-320T-20300	P.T
83	4-269T-00109	LOOP ANT ASSY, AM
84	4-240T-94371	SOCKET, FM ANT
85	141-2-368T-29801	HEAT SINK
86	▲ 4-234T-10579	FUSE T315MA 250V
87	4-234T-11087	FUSE 1.6MA 250V
88	4-970T-01600	LCD, CLOCK
89	4-400T-04900	CONNECTOR, LCD
90	4-267T-29000	SOCKET 5P, TURN TABLE
91	4-267T-29100	SOCKET 3P, P HEAD
92	4-267T-29200	SOCKET 3P, R/P HEAD
93	4-267T-29300	SOCKET 2P, E HEAD
94	4-267T-37800	SOCKET 7P, MECHANISM (TAPE A)
95	4-267T-37900	SOCKET 5P, MECHANISM (TAPE B)
96	CC+50222KDYBS	CERAMIC 0.0022MF 50V K DYB (C997F)(WG)
97	4-290T-06000	P.C. BOARD, HEADPHONE MTG
98	▲ 4-290T-05800	P.C. BOARD ASSY, PT PRIMARY

DECK-AMP PCB ASSY

Ref. No.	Part No.	Description
111	141-4-290T-05000	P.C. BOARD ASSY, DECK AMP
	141-4-290T-05001	P.C. BOARD ASSY, DECK AMP (WG)
	141-2-381T-04202	BRACKET FUSE
	4-237T-09993	TERMINAL BOARD, SP-OUT
	4-240T-52271	SOCKET 2P, CD
	141-2-368T-20000	HEAT SINK
	141-2-352T-77000	SPACER, FIBER
	4-237T-00100	TERMINAL BOARD, WRAPPER
	4-236T-32272	PLUG 2P, E HEAD
	4-236T-32273	PLUG 3P, P.R/P HEAD
	4-236T-32275	PLUG 5P, MECHA (TAPE A)
	4-236T-32277	PLUG 7P, MECHA (TAPE B)
	4-267T-17172	SOCKET 2P (DM)
	4-240T-83573	SOCKET 3P, AMP-IN (DM)
	4-240T-83573	SOCKET 3P (DM)
	4-267T-17174	SOCKET 4P (DM)
	4-240T-83575	SOCKET 5P, SPEAKER
	4-240T-47675	SOCKET 5P, TURN TABLE (DM)
	4-267T-17176	SOCKET 6P (DM)
	4-248T-22200	SWITCH, R/P SELECT (S1)
	4-248T-26600	SWITCH, DOLBY(S5)/ TAPE SELECTOR(S2-S3)/ DUB SPEED (S6)
	4-231T-65200	SWITCH, BEAT CANCEL (S4)
	4-248T-26500	SWITCH, FUNCTION (S7)
	BJB2S++3+6+Z1	BIND HD 2 TAPPING SCREW 3X6
	4-255T-06346	MX COIL
L501	4-252T-14176	CHOKE COIL
L502	4-252T-12922	CHOKE COIL
L503	4-255T-02371	MX COIL
L504	4-255T-06346	MX COIL
L601	4-252T-14176	CHOKE COIL
L602	4-252T-14176	CHOKE COIL

Ref. No.	Part No.	Description
L603	4-252T-12922	CHOKE COIL
L604	4-255T-02371	MX COIL
L901	4-258T-59340	OSC COIL
L902	4-252T-04700	CHOKE COIL
SVR1	4-222T-97574	SEMI-FIXED VR, 5K OHM (B)
SVR2	4-222T-97573	SEMI-FIXED VR, 2K OHM (B)
SVR3	4-222T-97574	SEMI-FIXED VR, 5K OHM (B)
SVR4	4-222T-97573	SEMI-FIXED VR, 2K OHM (B)
SVR501	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR502	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR503	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR504	4-222T-85878	SEMI-FIXED VR, 100K OHM (B)
SVR601	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR602	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR603	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
SVR604	4-222T-85878	SEMI-FIXED VR, 100K OHM (B)
IC1	SILC4069UB+++	IC LC4069UB DIP14
IC2	SILC4001B+++	IC LC4001B DIP14
IC501	SIBA3416AL+++	IC BA3416AL DSI18
or	SIBA3416BL+++	IC BA3416BL DSI18
IC502	SIBA1104LS+++	IC BA1104LS DSI24
IC503	SILA3220++++	IC LA3220 DIP14
IC701	SILA3160T++++	IC LA3160T DIP16
IC702	4-206T-04700	IC STK4112 MK2
IC901	SIAN7812F++++	IC AN7812F SIP3
Q1	STA608+F+++K+	TR 2SA608K F
Q2	STA608+F+++K+	TR 2SA608K F
Q3	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q4	STC3330U++++T	TR 2SC3330 U T
or	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q5	STC3330U++++T	TR 2SC3330 U T
or	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q6	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q7	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q8	STC3330U++++T	TR 2SC3330 U T
or	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q9	STC3330U++++T	TR 2SC3330 U T
Q10	STA608+F+++1	TR 2SA608 F SP
or	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q501	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q502	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q503	STC1740S++++T	TR 2SC3330 U T
or	STC3330U+++++	TR 2SC3330 U
Q504	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q505	STC1740S++++T	TR 2SC3330 U T
or	STD1468S+++1	TR 2SD1468 S SP
Q506	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q507	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q508	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q601	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U
Q602	STC1740S++++B	TR 2SC1740 S B SP
or	STC3330U+++++	TR 2SC3330 U

PARTS LIST

PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C746	CM+50473MR++F	MYLAR 0.047MF 50V M R	R19	401 025 7845	CARBON 2.2K JA 1/6W
C801	CC+50221KRSLF	CERAMIC 220PF 50V K R SL	R20	401 025 1942	CARBON 15K JA 1/6W
C802	CE+25475MR++F	ELECT 4.7MF 25V M R	R21	401 027 0349	CARBON 47K JA 1/6W
C804	CB+25273JRXRF	BC CON 0.027MF 25V J R XR	R22	401 025 7845	CARBON 2.2K JA 1/6W
C805	CE+10226MR++F	ELECT 22MF 10V M R	R23	401 016 4856	CARBON 22K JA 1/4W
C806	CB+25682JRXRF	BC CON 0.0068MF 25V J R XR	R24	401 025 8248	CARBON 22K JA 1/6W
C807	CE+50105MR++F	ELECT 1MF 50V M R	R25	401 024 7747	CARBON 100K JA 1/6W
C811	CE+50105MR++F	ELECT 1MF 50V M R	R26	401 024 7747	CARBON 100K JA 1/6W
C813	CE+25106MR++F	ELECT 10MF 25V M R	R30	401 026 4645	CARBON 33K JA 1/6W
C841	CC+50101KDSL	CERAMIC 100PF 50V K D SL	R31	401 026 9947	CARBON 4.7K JA 1/6W
C842	CE+50105MR++F	ELECT 1MF 50V M R	R500	401 012 5768	CARBON 1K JA 1/4W
C843	CC+50221KRSLF	CERAMIC 220PF 50V K R SL	R501	401 027 2145	CARBON 56 JA 1/6W
C844	CE+10107MR++F	ELECT 100MF 10V M R	R502	401 027 2640	CARBON 5.6K JA 1/6W
C845	CE+25476MR++F	ELECT 47MF 25V M R	R503	401 025 2345	CARBON 150K JA 1/6W
C846	CM+50473MR++F	MYLAR 0.047MF 50V M R	R504	401 025 7845	CARBON 2.2K JA 1/6W
C903	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R505	401 026 4348	CARBON 3.3K JA 1/6W
C904	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R506	401 024 7747	CARBON 100K JA 1/6W
C905	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R507	401 026 1040	CARBON 2.7K JA 1/6W
C906	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R508	401 024 7747	CARBON 100K JA 1/6W
C910	CE+25228MVHAS	ELECT 2200MF 25V M V HA S	R509	401 024 6740	CARBON 100 JA 1/6W
C911	CE+16108MVHAS	ELECT 1000MF 16V M V HA S	R510	401 027 2640	CARBON 5.6K JA 1/6W
C912	CC+50223ZDZFS	CERAMIC 0.022MF 50V Z D ZF	R511	401 026 4645	CARBON 33K JA 1/6W
C913	CE+16106MRHAF	ELECT 10MF 16V M R HA F	R512	401 026 4645	CARBON 33K JA 1/6W
C914	CC+50103ZDZFS	CERAMIC 0.01MF 50V Z D ZF (WG)	R513	401 025 1942	CARBON 15K JA 1/6W
C915	CC+50223ZDZFS	CERAMIC 0.022MF 50V Z D ZF (WG)	R514	401 026 4645	CARBON 33K JA 1/6W
C916	CC+50223ZDZFS	CERAMIC 0.022MF 50V Z D ZF (WG)	R515	401 026 4645	CARBON 33K JA 1/6W
C921	CE+16107MRHAF	ELECT 100MF 16V M R HA F	R516	401 025 1942	CARBON 15K JA 1/6W
C922	CC+50223ZDZFS	CERAMIC 0.022MF 50V Z D ZF (WG)	R517	401 027 5542	CARBON 6.8K JA 1/6W
C931	CE+16476MRHAF	ELECT 47MF 16V M R HA F	R519	401 024 7044	CARBON 1K JA 1/6W
C932	CE+16106MRHAF	ELECT 10MF 16V M R HA F	R520	401 012 5768	CARBON 1K JA 1/4W
C933	CB+25103JRXRF	BC CON 0.01MF 25V J R XR	R521	401 024 7747	CARBON 100K JA 1/6W
C934	CB+25103JRXRF	BC CON 0.01MF 25V J R XR	R522	401 026 4348	CARBON 3.3K JA 1/6W
C935	CC+50331KRSLF	CERAMIC 330PF 50V K R SL	R523	401 027 2640	CARBON 5.6K JA 1/6W
C936	CM+50102KRF++F	MYLAR 0.001MF 50V K R	R524	401 024 7450	CARBON 10K JA 1/6W
C937	CN100183JM++S	PP CON 0.018MF 100V J M	R525	401 024 7044	CARBON 1K JA 1/6W
C951	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R526	401 027 0349	CARBON 47K JA 1/6W
C952	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R527	401 026 4348	CARBON 3.3K JA 1/6W
C953	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R528	401 027 9342	CARBON 820K JA 1/6W
C954	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R529	401 026 9200	CARBON 430K JA 1/6W
C955	CE+25228MY++S	ELECT 2200MF 25V M Y	R530	401 026 9947	CARBON 4.7K JA 1/6W
C956	CE+25228MY++S	ELECT 2200MF 25V M Y	R541	401 026 4942	CARBON 330K JA 1/6W
C957	CE+25107MR++F	ELECT 100MF 25V M R	R542	401 024 7044	CARBON 1K JA 1/6W
C958	CE+10107MR++F	ELECT 100MF 10V M R	R543	401 024 9048	CARBON 120 JA 1/6W
C959	CE+50225MR++F	ELECT 2.2MF 50V M R	R544	401 024 7044	CARBON 1K JA 1/6W
C960	CE+25107MR++F	ELECT 100MF 25V M R	R545	401 024 7450	CARBON 10K JA 1/6W
C961	CE+25107MR++F	ELECT 100MF 25V M R	R546	401 025 7845	CARBON 2.2K JA 1/6W
C962	CE+16227MY++S	ELECT 220MF 16V M Y	R547	401 024 7450	CARBON 10K JA 1/6W
C981	CC+50821KRSLF	CERAMIC 820PF 50V K R SL (WG)	R548	401 025 7845	CARBON 2.2K JA 1/6W
C982	CC+50821KRSLF	CERAMIC 820PF 50V K R SL (WG)	R549	401 027 5948	CARBON 68K JA 1/6W
C983	CC+50103ZDZFS	CERAMIC 0.01MF 50V Z D ZF (WG)	R550	401 025 1942	CARBON 15K JA 1/6W
C984	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF	R551	401 026 0647	CARBON 270 JA 1/6W
C985	CM+50562MR++F	MYLAR 0.0056MF 50V M R (WG)	R552	401 026 4348	CARBON 3.3K JA 1/6W
C986	CM+50562MR++F	MYLAR 0.0056MF 50V M R (WG)	R553	401 027 2640	CARBON 5.6K JA 1/6W
C987	CM+50562MR++F	MYLAR 0.0056MF 50V M R (WG)	R554	401 026 4645	CARBON 33K JA 1/6W
C988	CM+50562MR++F	MYLAR 0.0056MF 50V M R (WG)	R555	401 025 9057	CARBON 2.2M JA 1/6W
C991	CC+50101KRSLF	CERAMIC 100PF 50V K R SL (WG)	R600	401 012 5768	CARBON 1K JA 1/4W
C992	CC+50101KRSLF	CERAMIC 100PF 50V K R SL (WG)	R601	401 027 2145	CARBON 56 JA 1/6W
R2	401 026 9947	CERAMIC 0.01MF 50V Z D ZF (WG)	R602	401 027 2640	CARBON 5.6K JA 1/6W
R4	401 027 3043	CARBON 4.7K JA 1/6W	R603	401 025 2345	CARBON 150K JA 1/6W
R6	401 026 9947	CARBON 4.7K JA 1/6W	R604	401 025 7845	CARBON 2.2K JA 1/6W
R8	401 027 3043	CARBON 56K JA 1/6W	R605	401 026 4348	CARBON 3.3K JA 1/6W
R9	401 025 4240	CARBON 1.8K JA 1/6W	R606	401 024 7747	CARBON 100K JA 1/6W
R10	401 024 7044	CARBON 1K JA 1/6W	R607	401 026 1040	CARBON 2.7K JA 1/6W
R11	401 025 4240	CARBON 1.8K JA 1/6W	R608	401 024 7747	CARBON 100K JA 1/6W
R12	401 024 7044	CARBON 1K JA 1/6W	R609	401 024 6740	CARBON 100 JA 1/6W
R13	401 026 4645	CARBON 33K JA 1/6W	R610	401 027 2640	CARBON 5.6K JA 1/6W
R14	401 012 7069	CARBON 10K JA 1/4W	R611	401 026 4645	CARBON 33K JA 1/6W
R15	401 027 0349	CARBON 47K JA 1/6W	R612	401 026 4645	CARBON 33K JA 1/6W
R16	401 025 4240	CARBON 1.8K JA 1/6W	R619	401 024 7044	CARBON 1K JA 1/6W
R17	401 012 5768	CARBON 1K JA 1/4W	R620	401 012 5768	CARBON 1K JA 1/4W
R18	401 027 0349	CARBON 47K JA 1/6W	R621	401 024 7747	CARBON 100K JA 1/6W
			R622	401 026 4348	CARBON 3.3K JA 1/6W
			R623	401 027 2640	CARBON 5.6K JA 1/6W
			R624	401 024 7450	CARBON 10K JA 1/6W

PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R625	401 024 7044	CARBON 1K JA 1/6W	R954	401 026 4942	CARBON 330K JA 1/6W
R626	401 027 0349	CARBON 47K JA 1/6W	R955	401 025 8248	CARBON 22K JA 1/6W
R627	401 018 3877	CARBON 3.3K JA 1/4W	R956	401 026 1040	CARBON 2.7K JA 1/6W
R628	401 027 9342	CARBON 820K JA 1/6W	R957	401 017 2851	CARBON 27K JA 1/4W
R629	401 026 9200	CARBON 430K JA1/6W	R958	401 026 9947	CARBON 4.7K JA 1/6W
R630	401 026 9947	CARBON 4.7K JA 1/6W	R959	401 026 9947	CARBON 4.7K JA 1/6W
R641	401 026 4942	CARBON 330K JA 1/6W	R960	402 023 1700	FUSIBLE RES 100 J 1/4W
R642	401 024 7044	CARBON 1K JA 1/6W	R961	402 023 1700	FUSIBLE RES 100 J 1/4W
R643	401 024 9048	CARBON 120 JA 1/6W	R962	401 014 4165	CARBON 1.5K JA 1/4W
R644	401 024 7044	CARBON 1K JA 1/6W	R981	401 012 3467	CARBON 10 JA 1/4W (WG)
R645	401 024 7450	CARBON 10K JA 1/6W	R982	401 012 3467	CARBON 10 JA 1/4W (WG)
R646	401 025 7845	CARBON 2.2K JA 1/6W			
R647	401 024 7450	CARBON 10K JA 1/6W			
R648	401 025 7845	CARBON 2.2K JA 1/6W			
R649	401 027 5948	CARBON 68K JA 1/6W			
R650	401 014 5261	CARBON 15K JA 1/4W			
R651	401 026 0647	CARBON 270 JA 1/6W			
R652	401 026 4348	CARBON 3.3K JA 1/6W			
R653	401 027 2640	CARBON 5.6K JA 1/6W			
R654	401 026 4645	CARBON 33K JA 1/6W			
R701	401 025 1645	CARBON 1.5K JA 1/6W			
R702	401 024 7747	CARBON 100K JA 1/6W			
R703	401 024 7044	CARBON 1K JA 1/6W			
R704	401 026 9640	CARBON 470 JA 1/6W			
R705	401 024 7747	CARBON 100K JA 1/6W			
R706	401 024 7450	CARBON 10K JA 1/6W			
R707	401 024 7747	CARBON 100K JA 1/6W			
R708	401 027 2343	CARBON 560 JA 1/6W			
R709	401 024 7044	CARBON 1K JA 1/6W			
R710	401 026 4645	CARBON 33K JA 1/6W			
R711	401 024 7044	CARBON 1K JA 1/6W			
R712	401 025 4646	CARBON 18K JA 1/6W			
R713	401 027 9342	CARBON 820K JA 1/6W			
R714	401 026 7042	CARBON 3.9K JA 1/6W			
R741	401 012 5768	CARBON 1K JA 1/4W			
R742	401 027 0349	CARBON 47K JA 1/6W			
R743	401 021 1966	CARBON 560 JA 1/4W			
R744	401 020 2964	CARBON 47K JA 1/4W			
R745	401 016 3869	CARBON 2.2K JA 1/4W			
R746	401 016 3869	CARBON 2.2K JA 1/4W			
R748	401 010 5601	CARBON 5.6 JB 1/2W			
R801	401 025 1645	CARBON 1.5K JA 1/6W			
R802	401 024 7747	CARBON 100K JA 1/6W			
R803	401 024 7044	CARBON 1K JA 1/6W			
R804	401 026 9640	CARBON 470 JA 1/6W			
R805	401 024 7747	CARBON 100K JA 1/6W			
R806	401 024 7450	CARBON 10K JA 1/6W			
R807	401 024 7747	CARBON 100K JA 1/6W			
R808	401 027 2343	CARBON 560 JA 1/6W			
R809	401 024 7044	CARBON 1K JA 1/6W			
R810	401 026 4645	CARBON 33K JA 1/6W			
R811	401 024 7044	CARBON 1K JA 1/6W			
R812	401 025 4646	CARBON 18K JA 1/6W			
R813	401 027 9342	CARBON 820K JA 1/6W			
R814	401 026 7042	CARBON 3.9K JA 1/6W			
R841	401 012 5768	CARBON 1K JA 1/4W			
R842	401 027 0349	CARBON 47K JA 1/6W			
R843	401 021 1966	CARBON 560 JA 1/4W			
R844	401 020 2964	CARBON 47K JA 1/4W			
R845	401 016 3869	CARBON 2.2K JA 1/4W			
R846	401 016 3869	CARBON 2.2K JA 1/4W			
R848	401 010 5601	CARBON 5.6 JB 1/2W			
R904	401 025 4240	CARBON 1.8K JA 1/6W			
R921	401 018 2860	CARBON 330 JA 1/4W			
R931	401 011 5006	CARBON 82 JB 1/2W			
R932	401 027 2343	CARBON 560 JA 1/6W			
R933	401 024 7450	CARBON 10K JA 1/6W			
R934	401 012 5768	CARBON 1K JA 1/4W			
R935	401 024 9741	CARBON 12K JA 1/6W			
R936	401 026 3747	CARBON 33 JA 1/6W			
R937	401 024 6443	CARBON 10 JA 1/6W			
R952	401 025 1942	CARBON 15K JA 1/6W			
R953	401 027 3043	CARBON 56K JA 1/6W			

PARTS LIST

Ref. No.	Part No.	Description
R835	401 024 8041	CARBON 1M JA 1/6W
R836	401 026 4942	CARBON 330K JA 1/6W
R837	401 026 9947	CARBON 4.7K JA 1/6W
R838	401 024 7044	CARBON 1K JA 1/6W
R839	401 024 7044	CARBON 1K JA 1/6W
R963	401 012 5768	CARBON 1K JA 1/4W

HEADPHONE SOCKET PCB ASSY

Ref. No.	Part No.	Description
113	141-4-290T-05300 141-4-290T-05301	P.C.BOARD ASSY, HEADPHONE P.C.BOARD ASSY, HEADPHONE (WG)
	4-240T-83575 4-240T-97275	SOCKET 5P SOCKET 7P
C989	CC+50223ZRZFF	CERAMIC 0.022MF 50V Z R ZF (WG)
C990	CC+50223ZRZFF	CERAMIC 0.022MF 50V Z R ZF (WG)
R749	401 018 2860	CARBON 330 JA 1/4W
R849	401 018 2860	CARBON 330 JA 1/4W

POWER LED PCB ASSY

Ref. No.	Part No.	Description
114	141-4-290T-05400 4-267T-17172 SLSLP153BB25R	P.C.BOARD ASSY, POWER LED SOCKET 2P LED SLP153B-40 B RE

CLOCK SW PCB ASSY

Ref. No.	Part No.	Description
115	141-4-290T-05500 4-236T-32273	P.C.BOARD ASSY, CLOCK SW PLUG 3P
S971	4-238T-84673	SWITCH, CLOCK
S972	4-238T-84673	SWITCH, HOUR
or C978	4-338T-84673	SWITCH, MINUTE
C979	CC+50102KRYBF CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB CERAMIC 0.001MF 50V K R YB

PT SCONDARY PCB ASSY

Ref. No.	Part No.	Description
116	△ 141-4-290T-05600 CF+50104JR++F	P.C.BOARD ASSY, PT SECONDARY METAL POLY 0.1MF 50V J R
C901	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C902	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C971	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C972	CF+50104JR++F	METAL POLY 0.1MF 50V J R
R901	402 023 2600	FUSIBLE RES 0.47 J 1/2W
R902	402 023 2600	FUSIBLE RES 0.47 J 1/2W

POWER SWITCH PCB ASSY

Ref. No.	Part No.	Description
117	△ 141-4-290T-05700 △ 141-2-381T-04202 △ 141-2-382T-18900 △ 141-2-135T-75700 △ 4-238T-70480 △ 4-223T-12100 △ 4-237T-00100	P.C.BOARD ASSY, POWER SW BRACKET FUSE TERMINAL, AC-IN COVER, CAPACITOR SWITCH CAPACITOR 0.01MF/400V TERMINAL BOARD, WRAPPER PIN

CLOCK PCB ASSY

Ref. No.	Part No.	Description
118	141-4-285T-60972 4-267T-28900	P.C.BOARD ASSY, CLOCK SOCKET 3P
CT981	4-224T-28071	TRIMMER
X985	4-225T-08200	CRYSTAL
IC971	SIUPD833GN++A	IC UPD833GN A QIP54
C970	CT+35224MZSVZ	CHP TNL 0.22MF 35V M Z SV
C971	CT+35224MZSVZ	CHP TNL 0.22MF 35V M Z SV
C972	CC+500500CZCHR	CHIP CC 5PF 50V C Z CH
C973	CC+50220JZCHR	CHIP CC 22PF 50V J Z CH
C974	CC+25104ZZYFZ	CHIP CC 0.1 25V Z Z YF
C975	CC+50472KZYBR	CHIP CC 4700PF 50V K Z YB
C976	CC+50222KZYBR	CHIP CC 2200PF 50V K Z YB
R1	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
R2	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
R3	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
R4	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
R5	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
R6	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R970	401 037 5816	MT-GLAZE 1M JA 1/10W
R971	401 037 5816	MT-GLAZE 1M JA 1/10W
R973	401 037 5816	MT-GLAZE 1M JA 1/10W
R974	401 037 5816	MT-GLAZE 1M JA 1/10W

BATTERY PCB ASSY

Ref. No.	Part No.	Description
119	141-4-290T-05900 4-267T-25172 4-237T-00100	P.C.BOARD ASSY, BATTERY SOCKET 2P TERMINAL BOARD, WRAPPER PIN

TUNER PCB ASSY

Ref. No.	Part No.	Description
121	141-4-290T-03200 141-4-290T-03201 141-2-322T-87100 141-2-322T-87202 141-2-322T-42000 141-2-322T-18100 4-237T-00100 4-267T-17172 4-267T-17172 4-267T-25175 4-248T-27000 4-248T-02672 4-224T-29100 4-224R-11600 4-224R-11600 4-224R-11600 4-224T-15571 4-224T-15471 4-224T-15571 4-224T-15471 4-256T-35040 4-256T-39040 4-256T-41740 4-265T-56240 4-265T-56340 4-253T-14812 4-265T-57244 4-257T-76840 4-257T-76940 4-258T-56940 4-258T-56840 4-253T-14844 4-256T-81000 4-256T-81000 4-256T-81000 4-256T-90371 4-255T-06940	P.C.BOARD ASSY, TUNER (WG) P.C.BOARD ASSY, TUNER SHIELD PLATE SHIELD PLATE SHIELD PLATE SHIELD PLATE TERMINAL BOARD, WRAPPER PIN SOCKET 2P SOCKET 2P SOCKET 5P PUSH SWITCH, BAND (S101~104) SWITCH, FM MODE (S301) VC TRIMMER TRIMMER TRIMMER TRIMMER TRIMMER TRIMMER TRIMMER IFT IFT IFT VHF COIL VHF COIL FILTER VHF COIL ANT COIL ANT COIL OSC COIL OSC COIL FILTER IF FILTER IF FILTER IF FILTER IF FILTER MX COIL (WG)
CT101		
CT102		
CT103		
CT151		
CT152		
CT153		
CT154		
T201		
T202		
T203		
L101		
L102		
L103		
L104		
L151		
L152		
L153		
L154		
L201		
CF201		
CF202		
CF203		
CF204		
LFP250		

PARTS LIST

Ref. No.	Part No.	Description
LPF301	4-253T-18740	FILTER
LPF302	4-253T-18740	FILTER
B351	4-253T-20300	FILTER (WG)
B352	4-253T-20300	FILTER (WG)
SVR121	4-222T-97573	SEMI-FIXED VR, 2K OHM (B)
SVR261	4-222T-97577	SEMI-FIXED VR, 50K OHM (B)
SVR301	4-222T-97572	SEMI-FIXED VR, 1K OHM (B)
SVR302	4-222T-97575	SEMI-FIXED VR, 10K OHM (B)
IC191	SIAN78L10++++	IC AN78L10 TO-92
IC201	SILA1265S++++	IC LA1265S DIP22
IC301	SILA3361+++++	IC LA3361 DIP16
Q101	SF2K212++++F++	FET 2SK212 F
Q102	STC2999E++++T	TR 2SC2999 E T
Q103	STC930+E++C1	TR 2SC930 E CONV SP
Q104	SF2K212++++F++	FET 2SK212 F
Q151	SF2K222++++D++	FET 2SK222 D
Q201	STC930+E++F1	TR 2SC930 E IF SP
Q301	STC536+G++U1	TR 2SC536 G AUD SP
Q302	STC536+G++U1	TR 2SC536 G AUD SP
Q381	STC3330U++++T	TR 2SC3330 U T
Q382	STC3330U++++T	TR 2SC3330 U T
Q383	STA608+F++B	TR 2SA608 F B SP
VD101	SCSVC211B2+U1	VARACTOR SVC211B2 AUD SP
VD102	SCSVC211B2+U1	VARACTOR SVC211B2 AUD SP
VD103	SCSVC211B2+U1	VARACTOR SVC211B2 AUD SP
D121	SD1SS133++++T	DIODE 1SS133
D122	SD1SS133++++T	DIODE 1SS133
D123	SD1SS133++++T	DIODE 1SS133
D124	SD1SS133++++T	DIODE 1SS133
D191	SDMTZ180B++++T	ZENER DIODE MTZ18.0B
D361	SD1SS133++++T	DIODE 1SS133
C101	CC+50101JRSLF	CERAMIC 100PF 50V J R SL
C103	CC+50101JRSLF	CERAMIC 100PF 50V J R SL
C104	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C105	CC+50040CRSLF	CERAMIC 4PF 50V C R SL
C106	CC+50030CRSLF	CERAMIC 3PF 50V C R SL
C107	CC+50100DRCHF	CERAMIC 10PF 50V D R CH
C108	CC+50101JRSLF	CERAMIC 100PF 50V J R SL
C109	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C110	CC+50030CDUJS	CERAMIC 3PF 50V C D UJ
C111	CC+50080DRCHF	CERAMIC 8PF 50V D R CH
C112	CC+50100DRCHF	CERAMIC 10PF 50V D R CH
C113	CC+50220JRCHF	CERAMIC 22PF 50V J R CH
C114	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C115	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C116	CC+50020CRCKF	CERAMIC 2PF 50V C R CK
C117	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C121	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C122	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C123	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C124	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C125	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C130	CC+50102KRYBF	CERAMIC 0.001MF 50V K R YB
C135	CC+50050CRSLF	CERAMIC 5PF 50V C R SL
C137	CC+50102KDYBS	CERAMIC 0.001MF 50V K D YB (WG)
C151	CC+50080DRSLF	CERAMIC 8PF 50V D R SL
C152	CC+50330JRSLF	CERAMIC 33PF 50V J R SL
C153	CC+50180JRUUF	CERAMIC 18PF 50V J R UJ
C154	CC+50181JRCHF	CERAMIC 180PF 50V J R CH
C155	CC+50101JRSLF	CERAMIC 100PF 50V J R SL
C156	CC+50471JRSLF	CERAMIC 470PF 50V J R SL
C157	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C158	CN100351JR++F	PP CON 350PF 100V J R
C159	CN100102JR++F	PP CON 1000PF 100V J R
C160	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF
C191	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C192	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C193	CE+25227MVHAS	ELECT 220MF 25V M V HAS
C201	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C202	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C203	CC+50103ZRYFF	CERAMIC 0.01MF 50V Z R YF
C204	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF

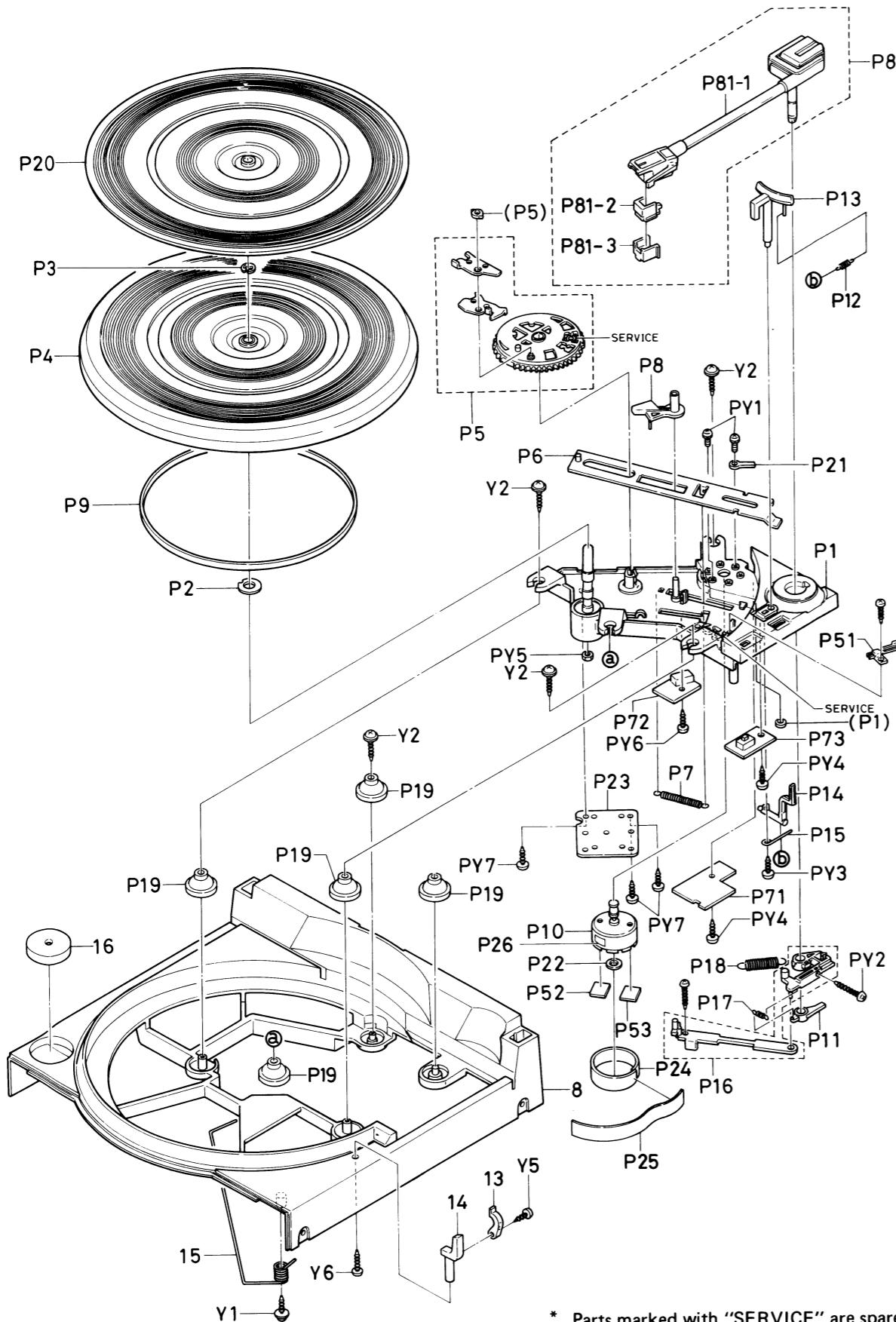
PARTS LIST

Ref. No.	Part No.	Description
C205	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF
C206	CE+16106MRHAF	ELECT 10MF 16V M R HA F
C207	CC+50221JRSLF	CERAMIC 220PF 50V J R SL
C208	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF
C209	CE+16106MRHAF	ELECT 10MF 16V M R HA F
C210	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF
C211	CE+25475MRHAF	ELECT 4.7MF 25V M R HA F
C212	CE+50335MRHAF	ELECT 3.3MF 50V M R HA F
C213	CC+50223ZRYFF	CERAMIC 0.022 50V Z R YF
C214	CE+10107MRHAF	ELECT 100MF 10V M R HA F
C215	CB+25223MR++F	BC CON 0.022MF 25V M R
C216	CB+25683MR++F	BC CON 0.068MF 25V M R
C217	CE+16106MRHAF	ELECT 10MF 16V M R HA F
C218	CB+25103MR++F	BC CON 0.01MF 25V M R
C220	CB+25223MR++F	BC CON 0.022MF 25V M R
C250	CC+50471JRSLF	CERAMIC 470PF 50V J R SL (WG)
C261	CB+16103MA+Y	BC CON 0.01MF 16V M A Y
C262	CB+16103MA+Y	BC CON 0.01MF 16V M A Y
C301	CE+10107MRHAF	ELECT 100MF 10V M R HA F
C302	CE+16106MRHAF	ELECT 10MF 16V M R HA F
C303	CB+25183MR++F	BC CON 0.018MF 25V M R
C304	CB+25183MR++F	BC CON 0.018MF 25V M R
C305	CE+50225MRHAF	ELECT 2.2MF 50V M R HA F
C306	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C307	CE+50474MRHAF	ELECT 0.47MF 50V M R HA F
C308	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C309	CN100102JRR++F	PP CON 1000PF 100V J R
C310	CB+25223MR++F	BC CON 0.022MF 25V M R
C311	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C312	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C313	CB+25222MR++F	BC CON 0.0022MF 25V M R
C314	CB+25222MR++F	BC CON 0.0022MF 25V M R
C315	CC+50561JRSLF	CERAMIC 560PF 50V J R SL
C316	CC+50561JRSLF	CERAMIC 560PF 50V J R SL
C317	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C318	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C321	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C322	CE+50105MRHAF	ELECT 1MF 50V M R HA F
C323	CB+25102MR++F	BC CON 0.001MF 25V M R (WG)
C324	CB+25102MR++F	BC CON 0.001MF 25V M R (WG)
C351	CB+25392JRXRF	BC CON 0.0039MF 25V J R XR
C352	CB+25392JRXRF	BC CON 0.0039MF 25V J R XR
C381	CE+50474MRHAF	ELECT 0.47MF 50V M R HA F
R101	401 024 7450	CARBON 10K JA 1/6W
R102	401 024 7747	CARBON 100K JA 1/6W
R103	401 024 6443	CARBON 10 JA 1/6W
R104	401 026 9640	CARBON 470 JA 1/6W
R105	401 024 7450	CARBON 10K JA 1/6W
R106	401 027 3241	CARBON 560K JA 1/6W
R107	401 027 2343	CARBON 560 JA 1/6W
R110	401 024 7450	CARBON 10K JA 1/6W
R111	401 027 2640	CARBON 5.6K JA 1/6W
R112	401 027 3241	CARBON 560K JA 1/6W
R113	401 026 3945	CARBON 330 JA 1/6W
R114	401 027 5245	CARBON 680 JA 1/6W
R115	401 024 7747	CARBON 100K JA 1/6W
R116	401 024 6443	CARBON 10 JA 1/6W
R117	401 024 7044	CARBON 1K JA 1/6W
R121	401 026 1347	CARBON 27K JA 1/6W
R122	401 027 2640	CARBON 5.6K JA 1/6W
R123	401 024 7450	CARBON 10K JA 1/6W
R124	401 024 8041	CARBON 1M JA 1/6W
R130	401 026 4348	CARBON 3.3K JA 1/6W
R151	401 024 8041	CARBON 1M JA 1/6W
R152	401 024 6740	CARBON 100 JA 1/6W
R153	401 024 6740	CARBON 100 JA 1/6W
R154	401 024 6740	CARBON 100 JA 1/6W
R155	401 026 4348	CARBON 3.3K JA 1/6W
R191	401 020 0405	CARBON 470 JB 1/4W
R201	401 026 3945	CARBON 330 JA 1/6W
R202	401 027 2640	CARBON 5.6K JA 1/6W
R203	401 025 4646	CARBON 18K JA 1/6W
R204	401 024 7044	CARBON 1K JA 1/6W
R205	401 026 3945	CARBON 330 JA 1/6W

ANTENNA PCB ASSY

Ref. No.	Part No.	Description
123	141-4-290T-03400	P.C.BOARD ASSY, FM ANT (WG)
	141-4-290T-03401	P.C.BOARD ASSY, FM ANT
B141	4-267T-17172	SOCKET 2P
B142	4-253T-20300	FILTER (WG)
C141		

EXPLODED VIEW (TURN-TABLE MECHANISM).



* Parts marked with "SERVICE" are spare part for (P1) and (P5).

**PARTS LIST (TURN TABLE)
TURNTABLE MECHANISM (PM-W8)**

Ref. No.	Part No.	Description
P1	141-0-311T-55100	CHASSIS ASSY, MECHA-BASE
P2	141-2-457T-44100	SPECIAL WASHER, SPINDLE THRUST
P3	TJETU++++6++++	ET RING 6MM, (P4) MTG
P4	141-0-118T-04800	TURN TABLE ASSY
P5	141-0-581T-51100	GEAR ASSY, MAIN
P6	141-0-732T-49400	SLIDE ASSY, MAIN
P7	141-2-856T-70600	SPRING COIL, (P7) PULLING
P8	141-2-740T-54500	LEVER, TRIPMENT
P9	141-2-561T-07200	FLAT BELT, (P4) DRIVE
P10	4-527T-32001	COMMUTATE MOTOR ASSY
P11	141-2-740T-54600	LEVER, ARM
P12	141-2-856T-75100	SPRING COIL, LIFTER TENSION
P13	141-2-872T-01500	LIFTER, ARM LIFT
P14	141-2-740T-54800	LEVER, CUEING
P15	141-2-860T-16400	SPRING WIRE, (P14) PRESSURE
P16	141-0-740T-54700	LEVER ASSY, ARM-DRIVE & TRIP LINK
P17	141-2-856T-70700	SPRING COIL, (P11) PULLING
P18	141-2-856T-70800	SPRING COIL, IFC
P19	141-2-174T-14801	STAND, MECHA-CUSHION
P20	141-2-247T-69800	SHEET, RUBBER
P21	123-2-472R-00401	LUG, SPINDLE SHAFT EARTH
P22	141-2-453T-31000	WASHER, ARM MTG
P23	141-2-351T-59800	BRACKET MOUNTING, CHASSIS MTG
P24	141-2-322T-97700	SHIELD PLATE, MOTOR
P25	141-2-184T-02400	TAPE 15X200MM
P26	141-2-250T-00802	DOUBLE FACE, (P24) FIXING
P51	4-248T-29500	SWITCH, SW940
P52	4-290T-29000	P.C.BOARD, MOTOR +
P53	4-290T-29100	P.C.BOARD, MOTOR -
P54	CC+50103ZDZFS	CERAMIC 0.01MF 50V (WG)

ARM LEVER SWITCH PCB ASSY

Ref. No.	Part No.	Description
P72	141-4-290T-01800 4-240T-83572 4-248T-29600	P.C.BOARD ASSY, ARM LEVER SW SOCKET 2P SWITCH, SW941

SPEED SWITCH PCB ASSY

Ref. No.	Part No.	Description
P73	141-4-290T-01900 4-240T-83572 4-248T-28600	P.C.BOARD ASSY, SPEED SW SOCKET 2P SWITCH, SW942

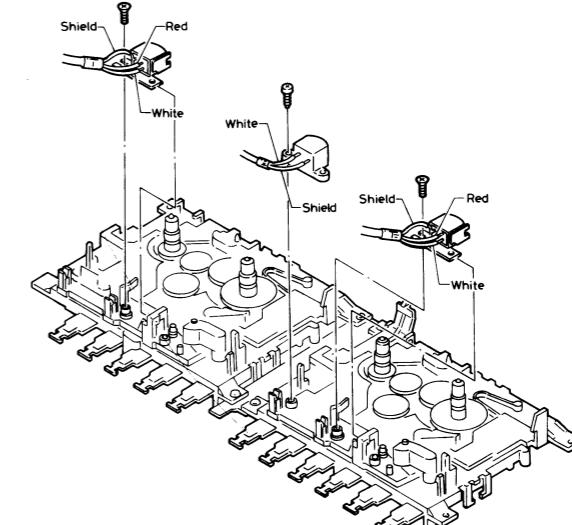
FIXING PARTS (TURNTABLE MECHANISM)

Ref. No.	Part No.	Description
PY1	BJX2S2R6+6+Z1	PAN HD SCREW W/SPRING WASHER 2.6X6
PY2	BJN2S++314+Z1	PAN HD 2 TAPPING SCREW 3X14
PY3	BJB2S++3+8+Z1	PAN HD 2 TAPPING SCREW 3X8
PY4	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
PY5	NJR3S++3++Z1	HEX NUT 3 3
PY6	BJN2S2R6+8+Z1	PAN HD 2 TAPPING SCREW 2.6X8
PY7	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8

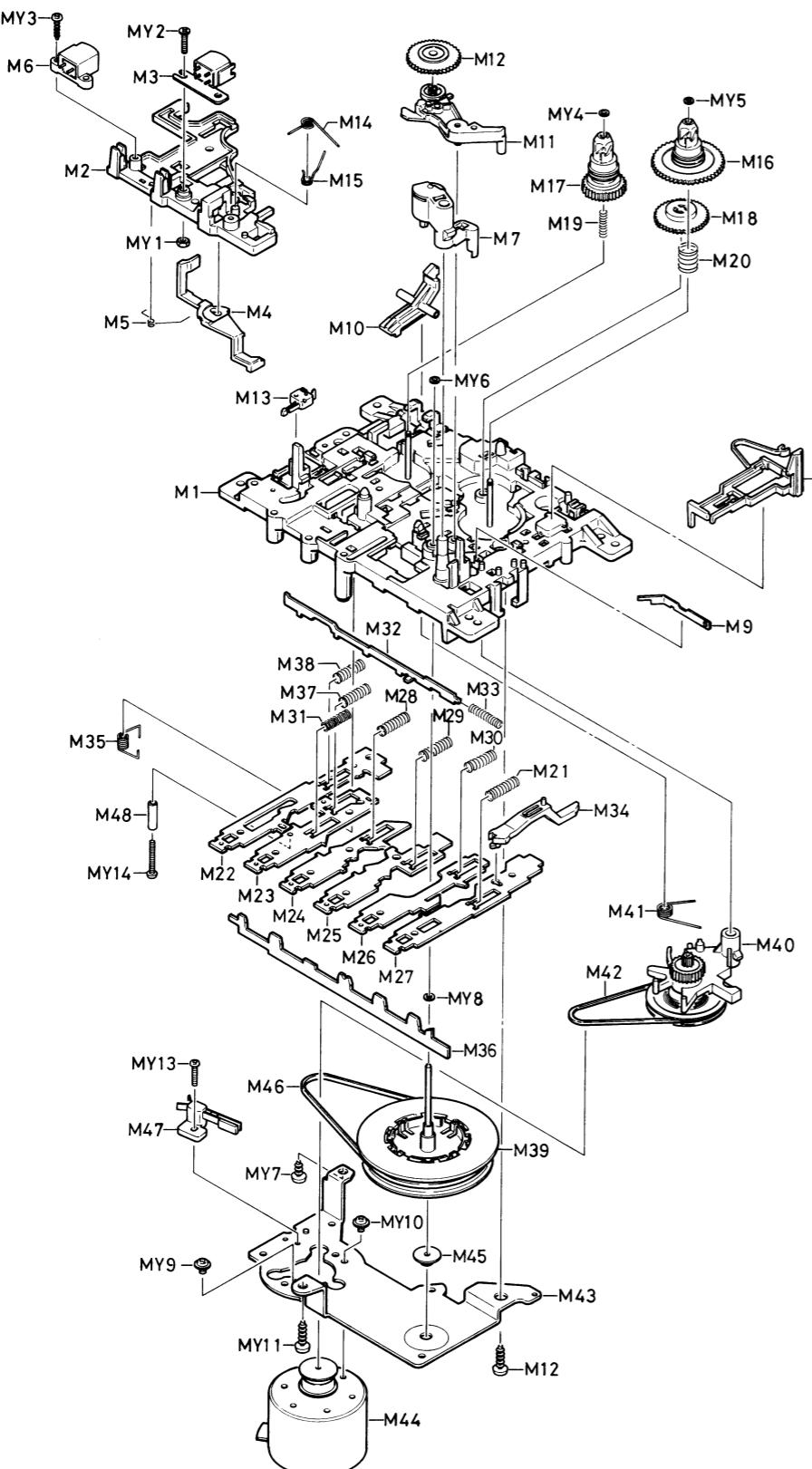
CONTROL PCB ASSY

Ref. No.	Part No.	Description
P71	141-4-290T-01700 4-236T-32375 4-240T-83572 4-222T-97581	P.C.BOARD ASSY, CONTROL PLUG 5P SOCKET 2P SEMI-FIXED VR, 3K OHM (B)
SVR940	S1UPC1470H+++	IC UPC1470H SIP4
IC940	SDDS442+X+++T	DIODE DS442 X
D940	CE+25335MVHAS	ELECT 3.3MF 25V M V HA S
R940	401 017 0867	CARBON 270 JA 1/4W
R941	401 022 0859	CARBON 68 JA 1/4W
R942	401 021 1966	CARBON 560 JA 1/4W
R943	401 023 1766	CARBON 820 JA 1/4W

REPLACEMENT HEAD



EXPLODED VIEW (DECK MECHANISM)



PARTS LIST (DECK MECHANISM)

DECK MECHANISM (TM-W18)

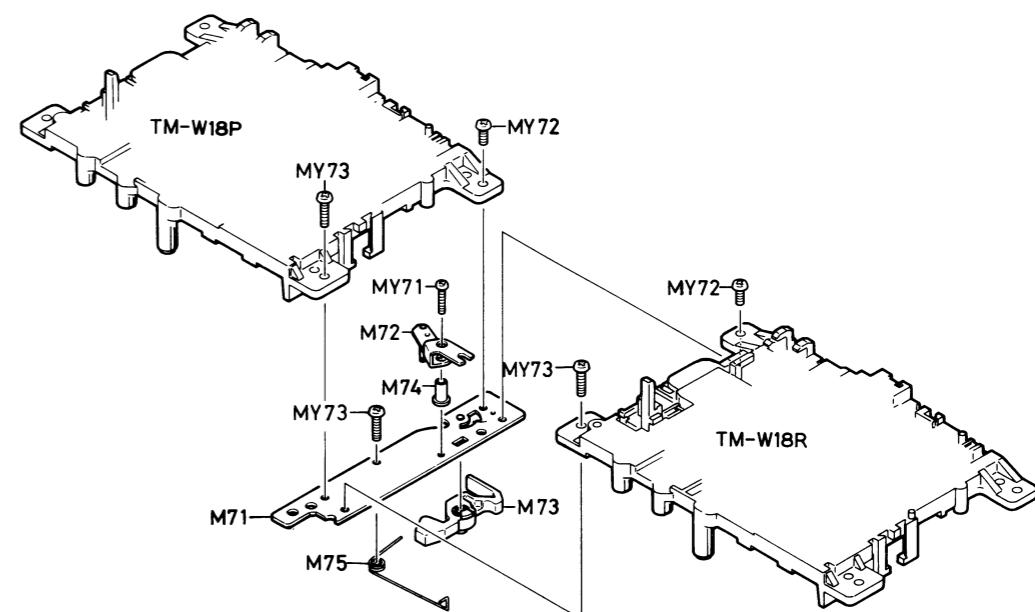
Ref. No.	Part No.	Description
M1	141-0-311T-53001	CHASSIS ASSY, DECK MECHANISM
M2	141-2-732T-40701	SLIDE, HEAD
M3	4-242T-37675	MAGNETIC HEAD, P (TAPE A)
	4-242T-37674	MAGNETIC HEAD, R/P (TAPE B)
M4	141-2-740T-42350	LEVER, AUTOSTOP-END DETECT
M5	141-2-860T-10200	SPRING WIRE, M4 PRESSURE
M6	4-242T-35371	MAGNETIC HEAD, DUMMY (TAPE A)
	4-242T-33672	MAGNETIC HEAD, E (TAPE B)
M7	141-0-545T-10900	LEVER PINCH ROLLER ASSY
M8	141-2-732T-40651	SLIDE, EJECT
M9	141-2-853T-94000	SPRING PLATE, FLYWHEEL METAL PRESSURE
M10	141-2-742T-97500	LEVER, SAFETY RECORD (TAPE B)
M11	141-2-740T-42200	LEVER, PLAY RELAY
M12	141-2-581T-29500	GEAR, PLAY IDLER
M13	4-248T-20571	SWITCH, MOTOR
M14	141-2-860T-15400	SPRING WIRE, (M7) PRESSURE
M15	141-2-860T-15500	SPRING WIRE, (M11) PRESSURE
M16	141-0-532T-07301	REEL GUIDE ASSY, TAKE UP
M17	141-2-532T-07450	REEL GUIDE, SUPPLY
M18	141-2-581T-46400	GEAR, FF RELAY
M19	141-2-856T-14400	SPRING COIL, SUPPLY BACK TENSION
M20	141-2-856T-17200	SPRING COIL, TAKE UP BACK TENSION
M21	141-2-856T-62200	SPRING COIL, (M27) RETURN
M22	141-2-732T-40900	SLIDE, REC (TAPE B)
M23	141-2-732T-41000	SLIDE, PLAY
M24	141-2-732T-41100	SLIDE, REW
M25	141-2-732T-41200	SLIDE, FF
M26	141-2-732T-41300	SLIDE, STOP
M27	141-2-732T-41400	SLIDE, PAUSE
M28	141-2-856T-61900	SPRING COIL, (M24) RETURN
M29	141-2-856T-61900	SPRING COIL, (M25) RETURN
M30	141-2-856T-61900	SPRING COIL, (M26) RETURN
M31	141-2-856T-62101	SPRING COIL, (M2) PRESSURE
M32	141-2-732T-41500	SLIDE, LOCK
M33	141-2-856T-61801	SPRING COIL, (M32) RETURN
M34	141-2-740T-42400	LEVER, PAUSE LOCK
M35	141-2-860T-10100	SPRING WIRE, AFTER REC PROTECT (TAPE B)
M36	141-2-737T-12200	BRACKET SLIDE, BUTTON SLIDE MTG
M37	141-2-856T-61901	SPRING COIL, (M23) RETURN

Ref. No.	Part No.	Description
M38	141-2-856T-71701	SPRING COIL, (M22) RETURN (TAPE B)
M39	141-0-521T-15203	FLYWHEEL ASSY
M40	141-0-740T-42500	LEVER ASSY, R/F
M41	141-2-860T-18500	SPRING WIRE, (M40) PRESSURE
M42	141-2-564T-43400	SQUARE BELT, FAST
M43	141-2-378T-19100	BRACKET MOTOR
M44	4-527T-33010	COMMUTATE MOTOR ASSY
M45	141-2-573T-15700	BEARING, (M39) METAL
M46	141-2-561T-08300	FLAT BELT, PLAY
M47	4-248T-30100	SWITCH, PLAY
M48	141-2-352T-76400	SPACER, SW
M71	141-0-290T-18600	BRACKET ASSY, TAPE A+B LINK
M72	141-0-740T-43000	LEVER ASSY, (M2) CONTINUOUS ACTION
M73	141-2-740T-43100	LEVER, (M34) KICK
M74	141-2-461T-52000	PIPE, (M72) MTG
M75	141-2-860T-10000	SPRING WIRE,

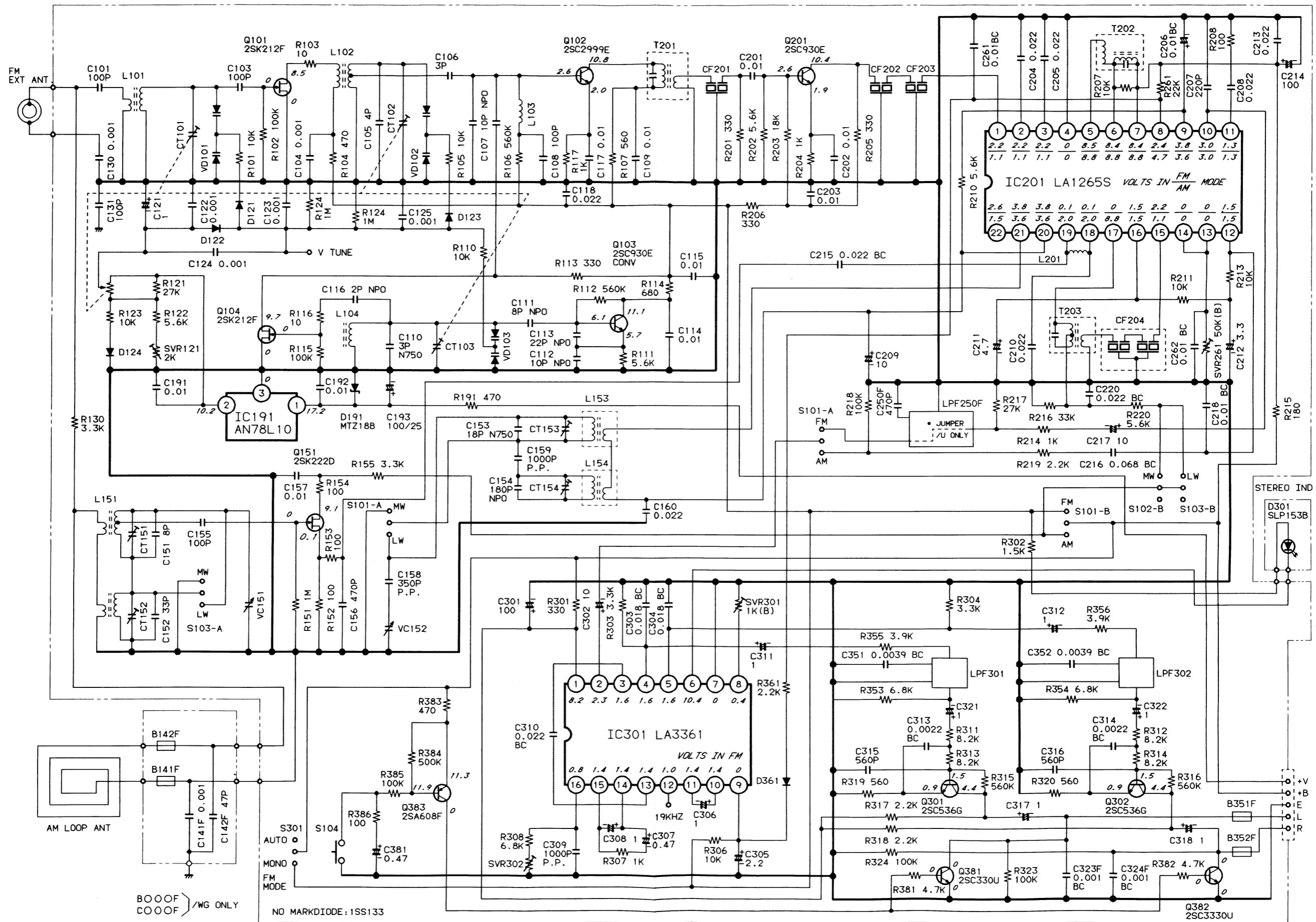
FIXING PARTS (DECK MECHANISM)

Ref. No.	Part No.	Description
MY1	NJR3S++2+++Z1	HEX NUT 3 2
MY2	BJS+S++210+Z1	FLAT HD SCREW 2X10
MY3	BJN2S++2+8+Z1	PAN HD 2 TAPPING SCREW 2X8
MY4	141-2-453T-30001	WASHER GNW 1.7X3.2X0.25
MY5	141-2-453T-30001	WASHER GNW 1.7X3.2X0.25
MY6	141-2-453T-29901	WASHER GNW 1.8X3.2X0.25
MY7	BJB2S++3+6+Z1	BIND HD 2 TAPPING SCREW 3X6
MY8	141-2-453T-30101	WASHER GNW 2.1X4.0X0.25
MY9	BJY3S2R62R8Z1	PAN CUP TITE WASHER
		HEAD SCREW 2.6X2.8
MY11	BJB2S++310+Z1	BIND HD 2 TAPPING SCREW 3X10
MY13	BJSTS++2+8+Z1	PAN HD 2 SPECIAL
MY14	BJSTS++214+Z1	FORMING SCREW 2X8
MY71	BJSTS2R610+Z1	PAN HD 2 SPECIAL
MY72	BJSTS++3+6+Z1	FORMING SCREW 2X14
MY73	BJSTS++310+Z1	PAN HD 2 SPECIAL
		FORMING SCREW 2.6X10
		PAN HD 2 SPECIAL
		FORMING SCREW 3X6
		PAN HD 2 SPECIAL
		FORMING SCREW 3X10

EXPLODED VIEW (DECK MECHANISM) 2/2

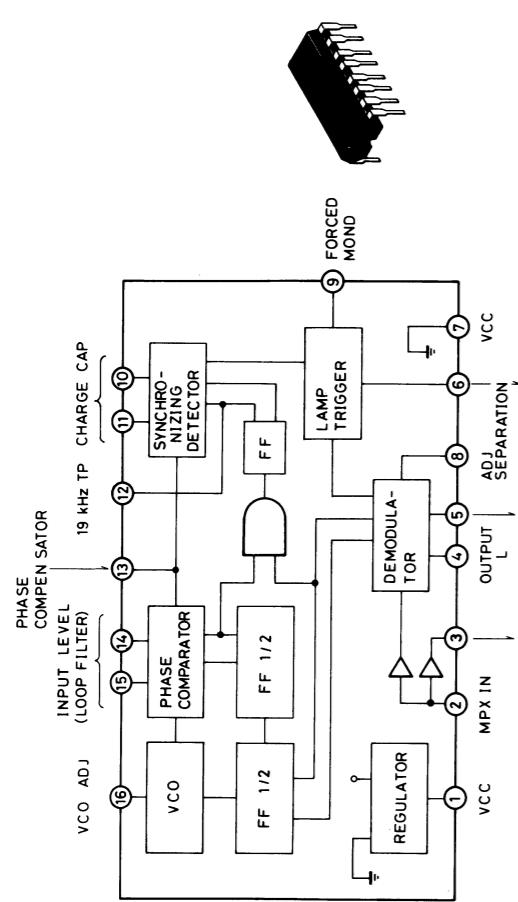


SCHEMATIC DIAGRAM (TUNER)

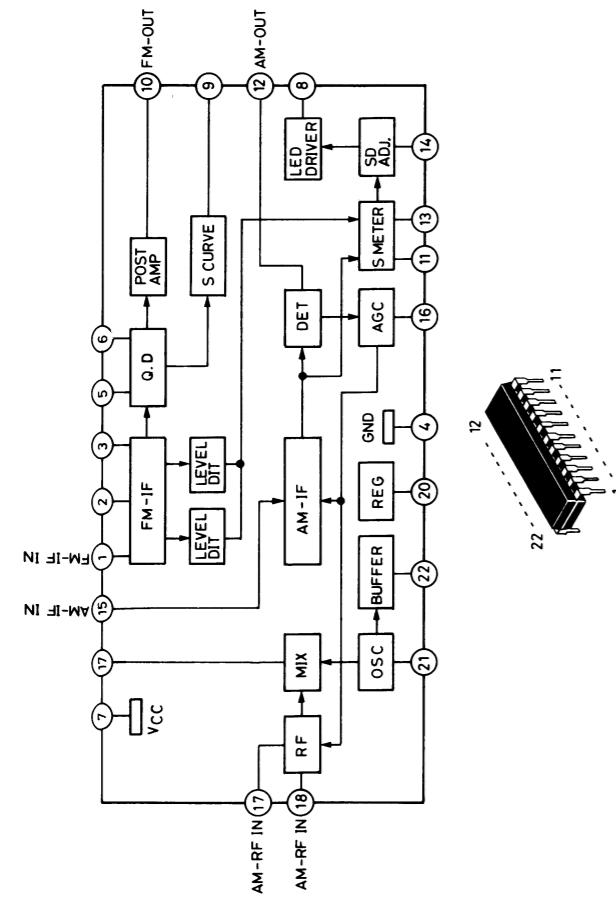


IC BLOCK DIAGRAM

IC301 LA3361 (PLL FM MPX Stereo Demodulator)

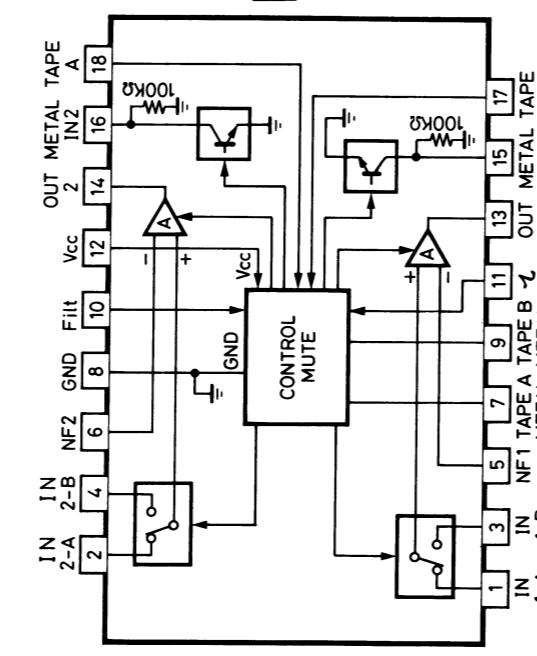


IC201 LA1265S (Tuner System)

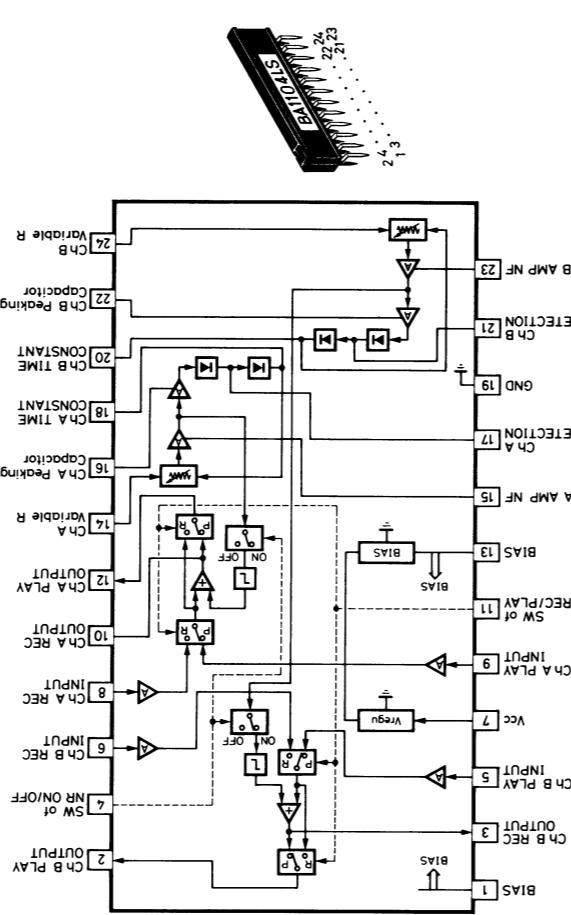


IC501 BA3416 BL (Low Noise Dual Amplifier)

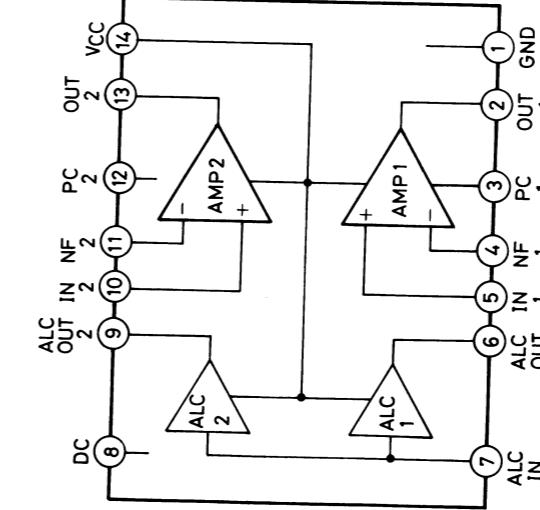
Double Mechanism & Tape Selector



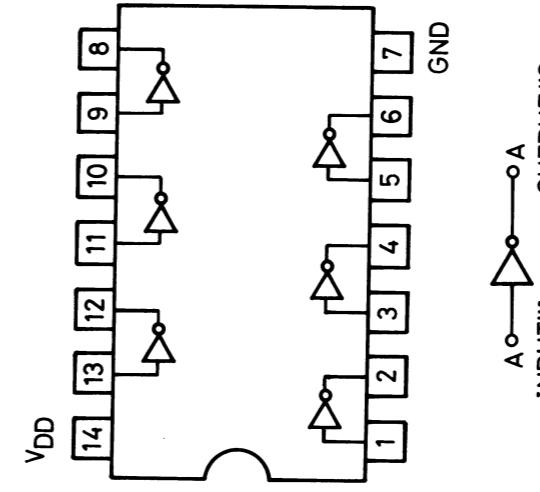
IC502 BA1104LS (Dolby B Type Noise Reduction)



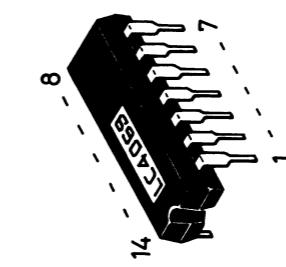
IC503 LA32220 (Dual Pre-Amplifier)



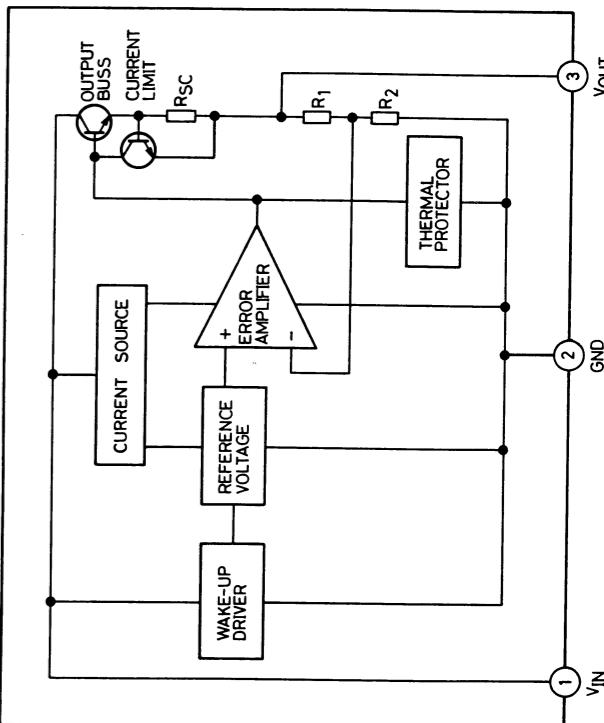
IC1 LC4069UB (Quad NOR Gate)



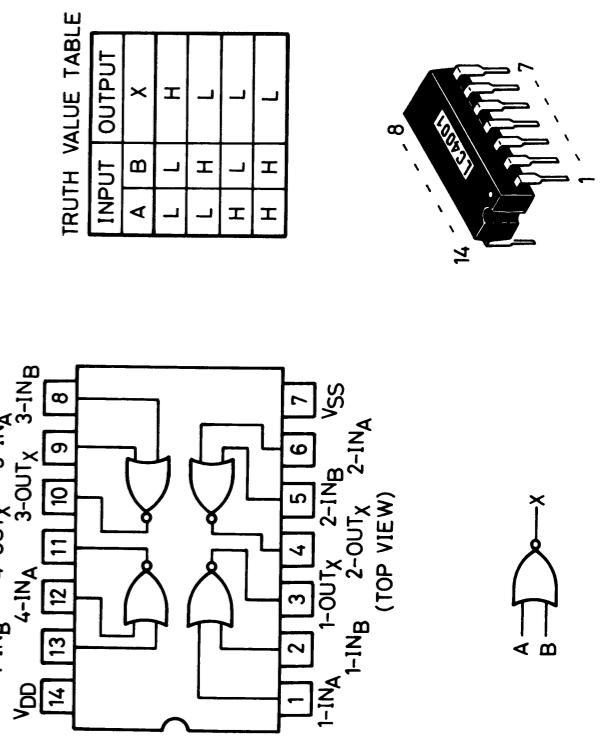
TRUTH VALUE TABLE	
INPUT	OUTPUT
"I,"	"O,"
L	H
H	L



IC901 AN7812F (Regulated Power Supply)



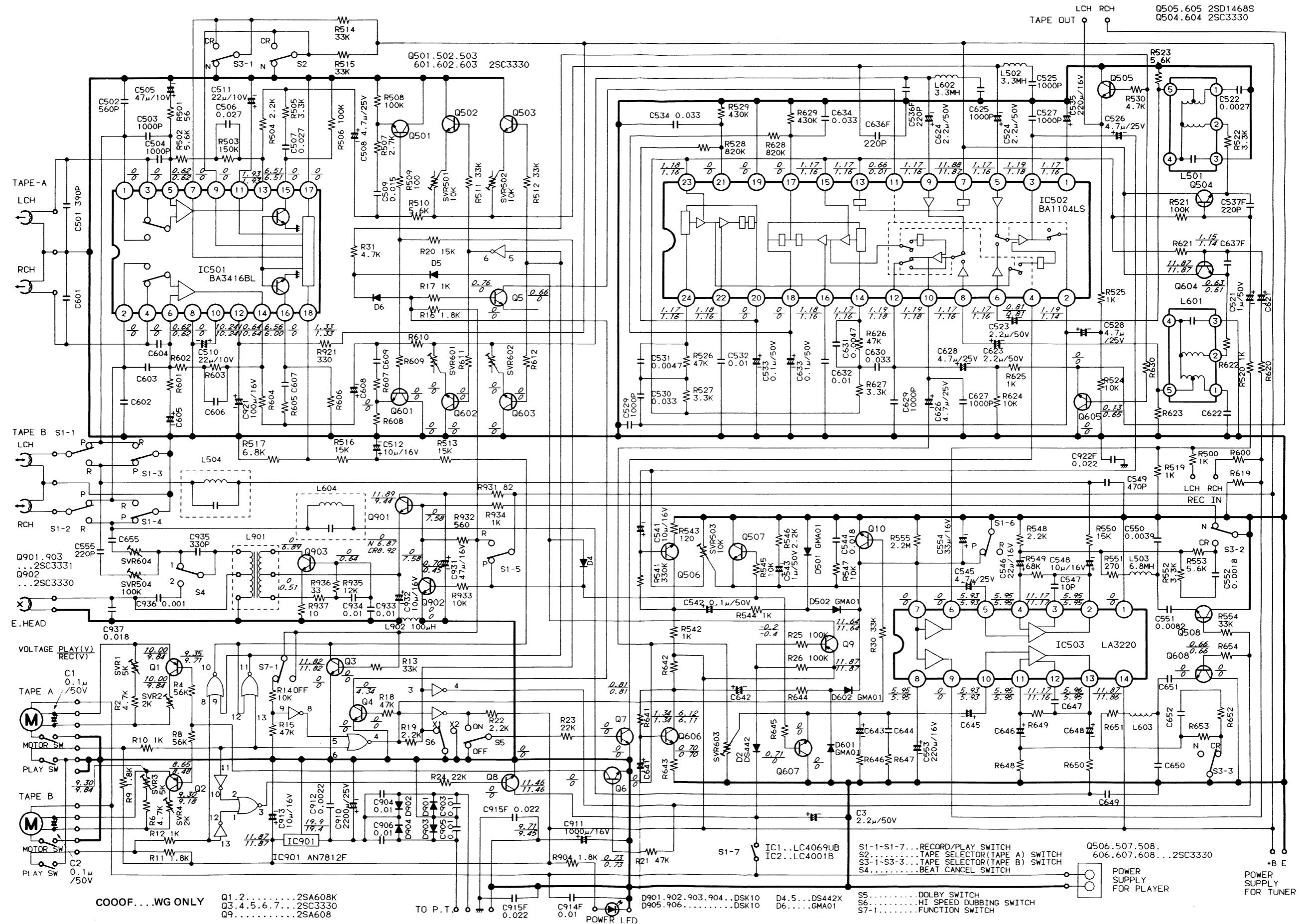
IC2 LC4001B (Hex Inverter)



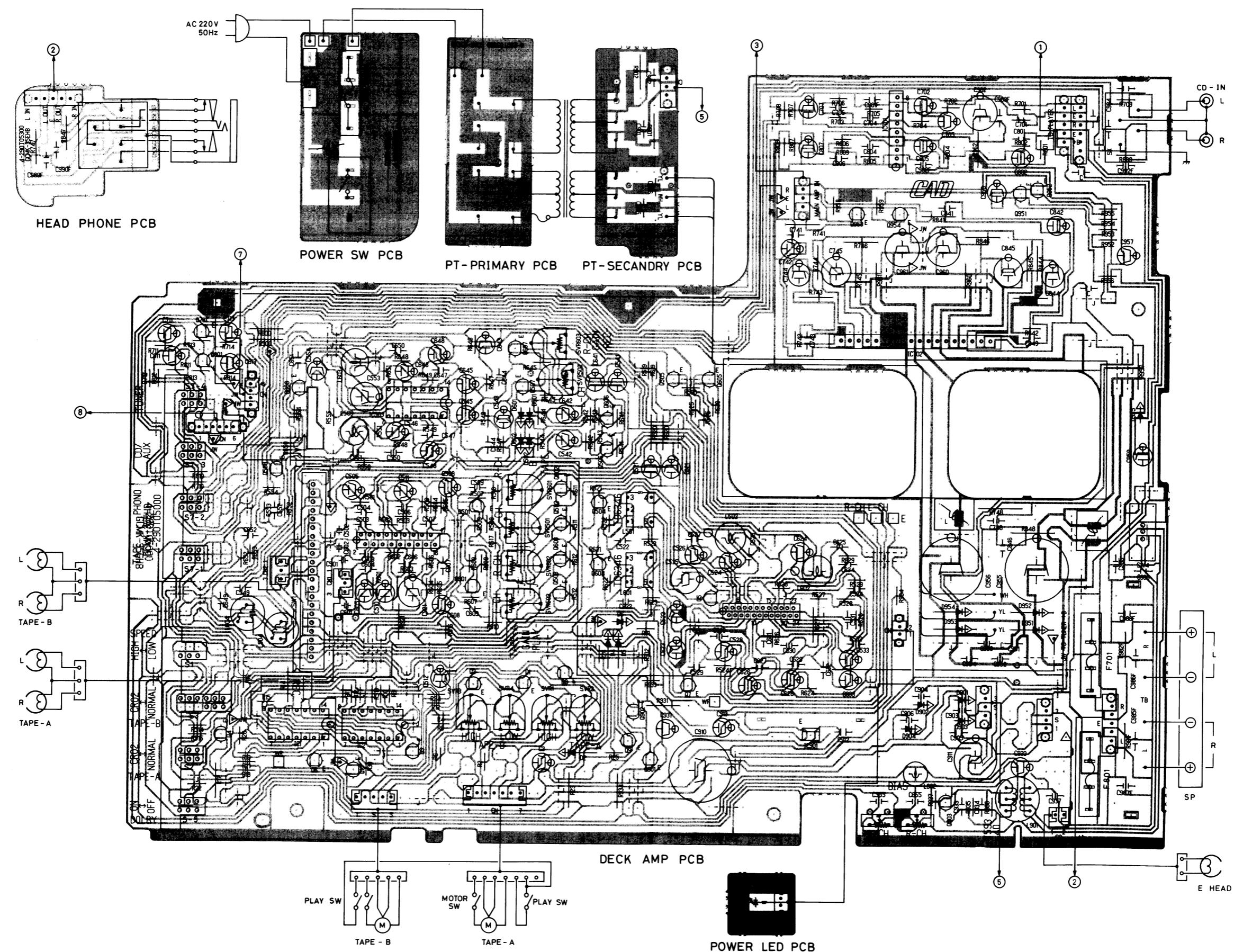
IC902 BA1104LS (Dolby B Type Noise Reduction)



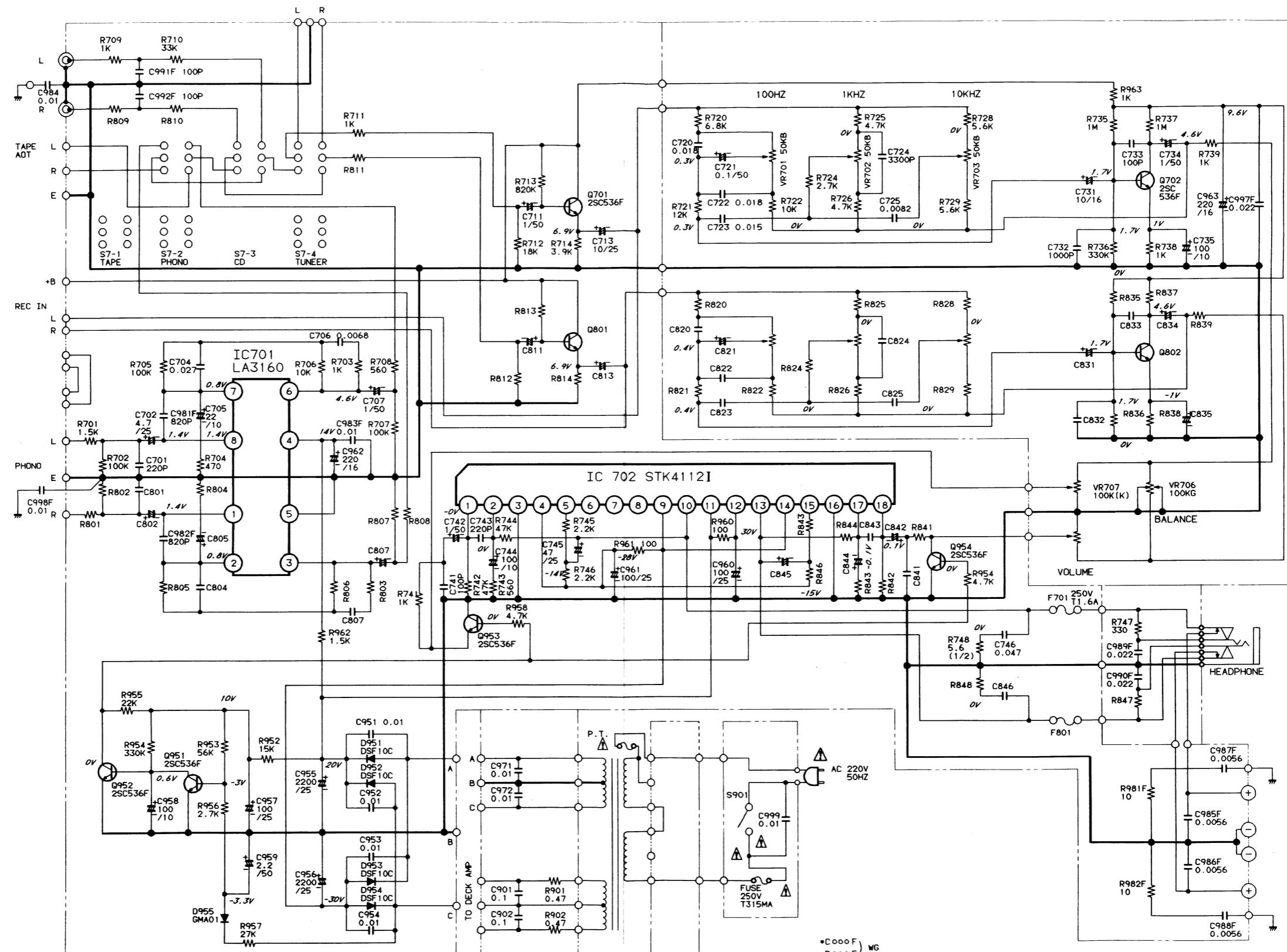
SCHEMATIC DIAGRAM (DECK-AMP)



WIRING DIAGRAM (DECK AMP)



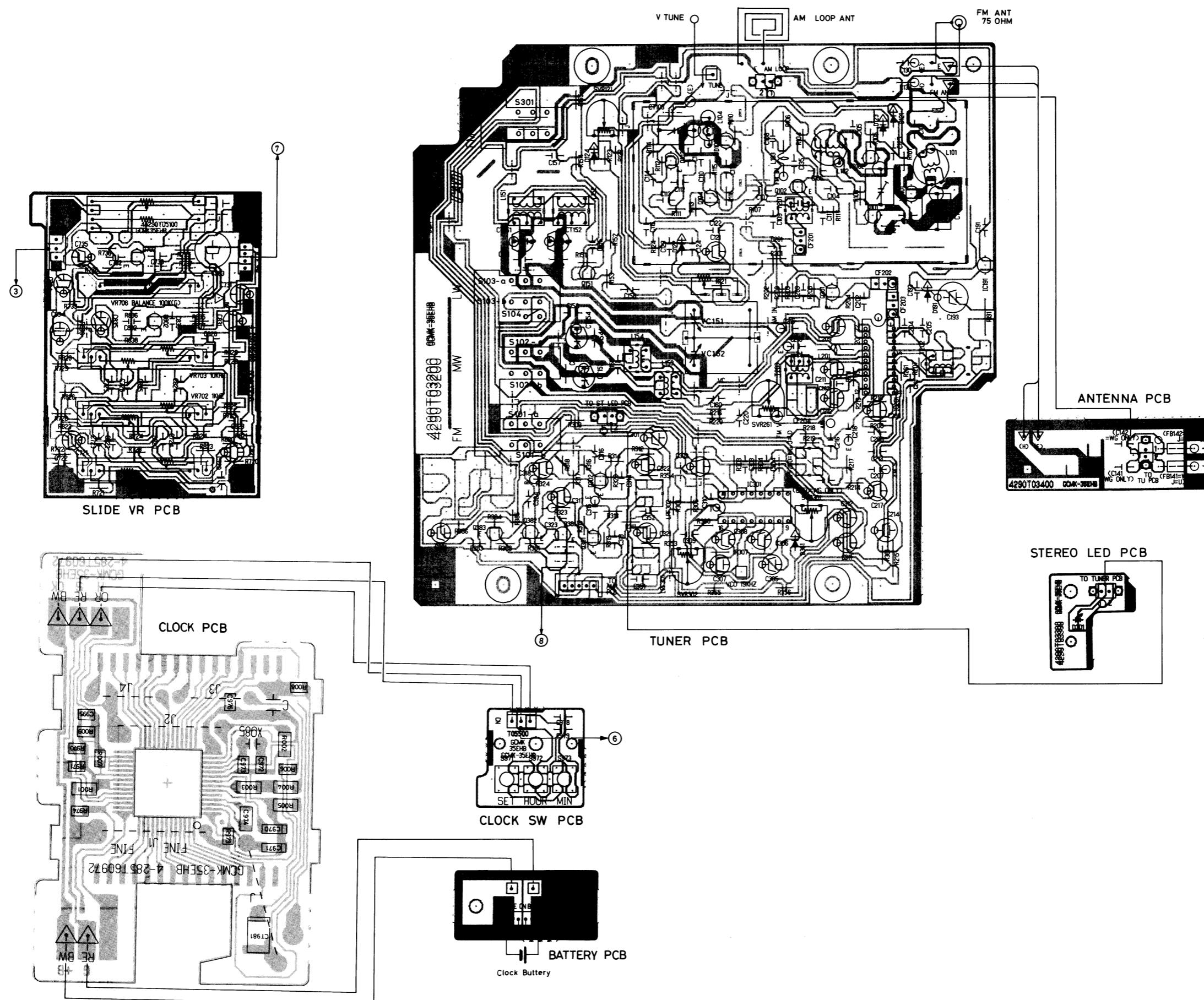
SCHEMATIC DIAGRAM (POWER AMP)



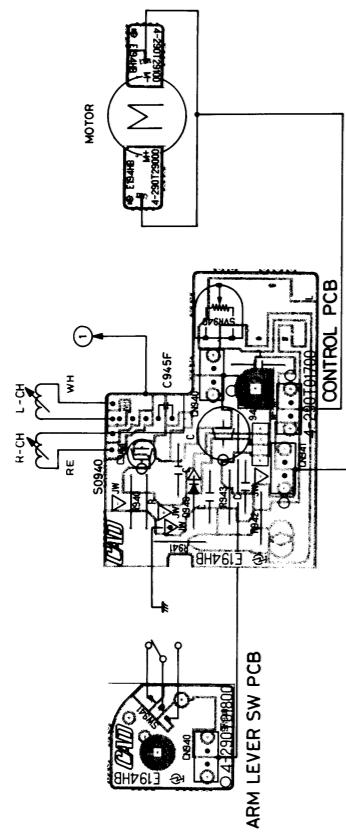
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

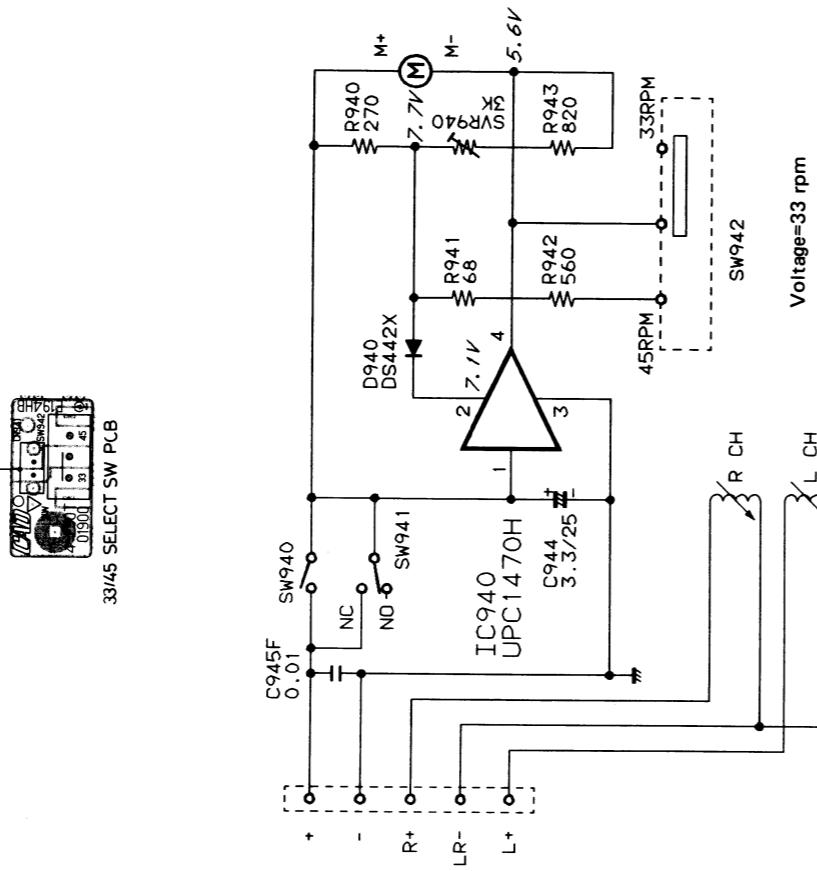
WIRING DIAGRAM (TUNER · CLOCK · SLIDE VR)



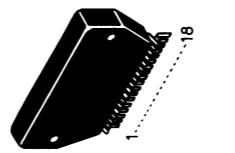
WIRING DIAGRAM (TURN-TABLE)



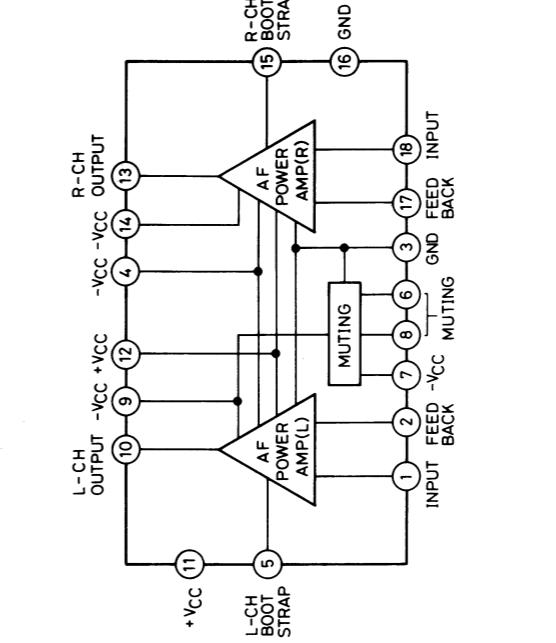
SCHEMATIC DIAGRAM (TURN-TABLE)



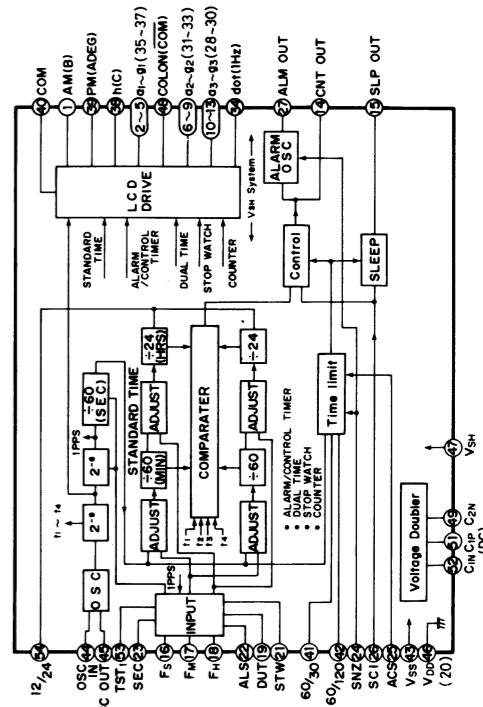
IC BLOCK DIAGRAM



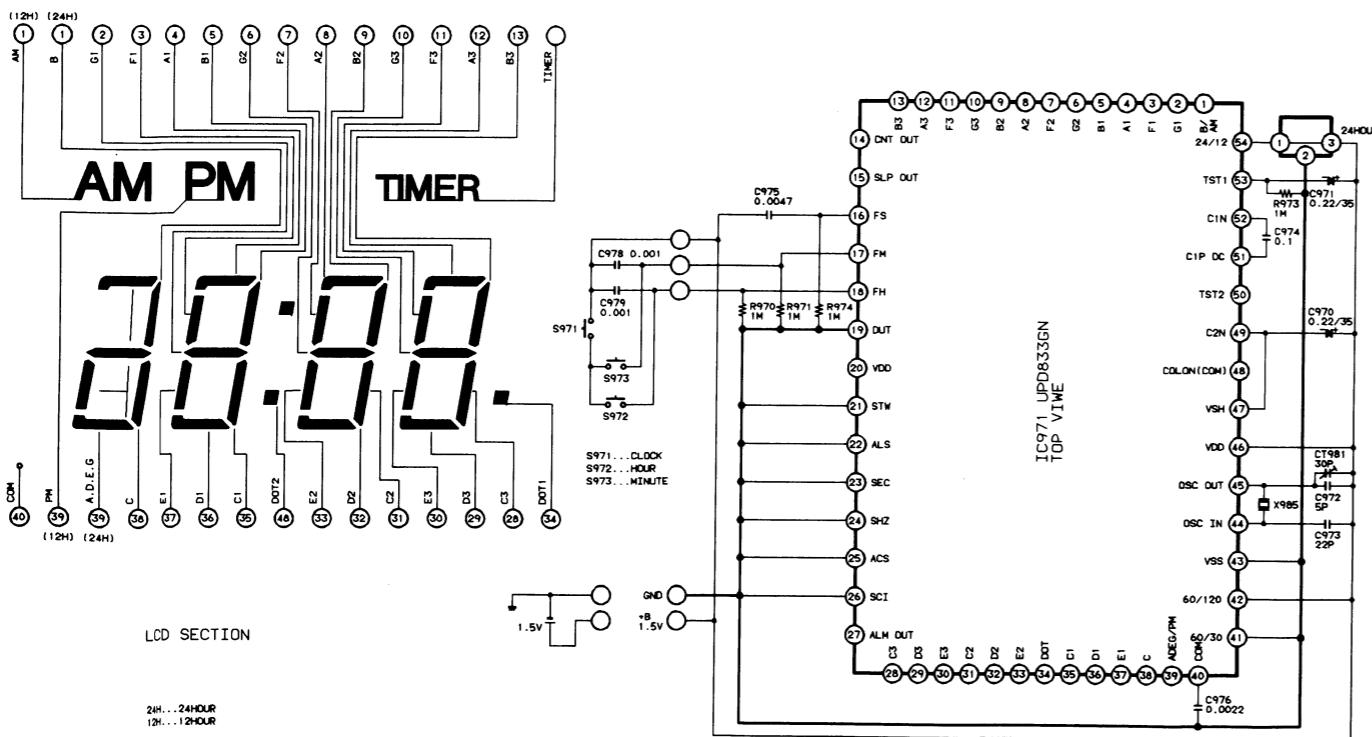
IC702 TSK4112MKII (Power Amplifier)



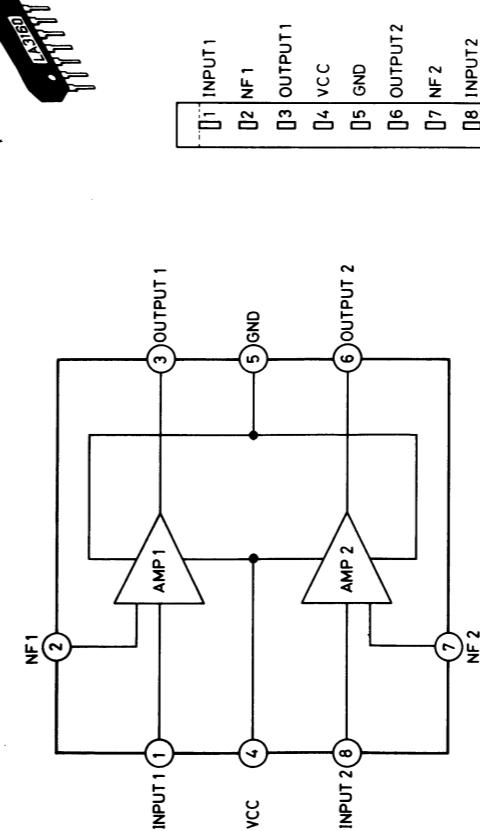
IC971 μPD833GN (Clock & Timer)



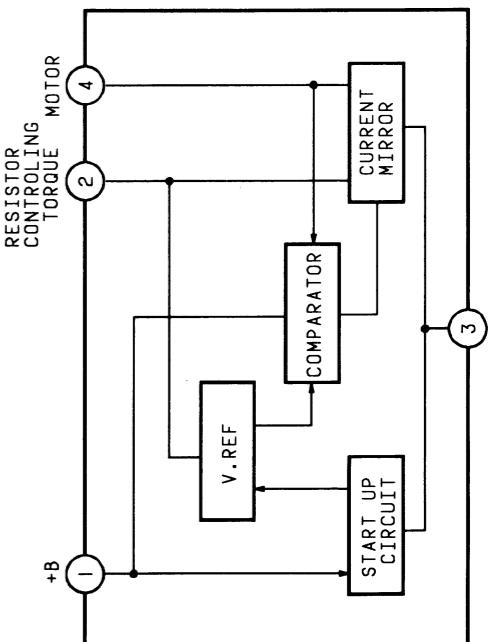
SCHEMATIC DIAGRAM (CLOCK)



IC701 LA3160 (Pre-Amplifier)



IC940 μPC1470H (Motor Driver)



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